

## NOTES

from



on the

Principles & Surgery.

The Bellen's

1830.

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COLLEGE OF PHYSICIANS PHILADELPHIA

Notes T. E. Betton from Hodge's Sectures Principles of Surgery. Irritation .

Then we day that a part is organised, we mean that it contains blood essels, nerves and absorbents; altho' we cannot demonstrate it, we have every reasonable growing to believe that they exist; and I shall be in du the necessity of as Surving it as a principle, that the nerves of organic life an distributed to the minutest carrifications of the bloodversely as I incline to the belief that all impressions are previous made on the merious tystew.

Varteular parts require particular structi, and as Brown Just, life is supported by it: the Heart and Arteries are structated by actival blood; the lungs by at news pherie air: the Howach by the food, the stomach locales the Liver Concreas and Litestines this the medium of sympathy. Moreover the healthy action of one organ is ne cersary for the of others and on it depend the phenomena of health; as the healthy action of the Stowach is necessary for that of the Brain & . Be. hence if a Thinkles either in grantity or quality unatural be continued or applied for any leighth of time devangement takes place and the park is daid to be in a thate of Irritation which may be defined to be a morbid existement of the organic

Lales " Varlanton parts degeno parte das strong to mot offer days left is beforeted by it; the High on Astonies a stom who test day action to the being by it mis plans and or speaking parameteral he continued in applica for west to be a survived a continue of the reguest

actions, or in other words it is nothing more than the action or effect of an irrhant on an irritable organ, and varies

There are three, if we down the the nervous bysten fas is generally

None forto Sanglionie or dynpathetic, Cerebro- Spinal there is will be four, and hence we have four irritations. The

tiones are organice, newous, Sanguineous, and absorbent; the two first are primary the other secondary, each time

carries its own influence into every organ.

By Fritability me me an the Capability of receiving impressions. For constitute sensibility we must have a sentent surface, contactors and a part capable of receiving

Sympathy is the suffering of one of more organs together. I am in chied to believe that whenever Fritation is froduced it first attacks the Gauglionic system of

newes and there is conveyed to the other times

nervous irritation arises when the spiral marrow is acted upon: organic irritation is dometimes stone present as

in small pop, contagion, measles &c. This is sometimes

followed by absorbed irritation.

for I shall speak of organic irritation and also of the proper nervous Fritation; both of which I shall call supply Tritation, which term in the ensuing Lectures you will indees tand to apply to those two; as I shall generally prifix the term Sanguine and absorbent when

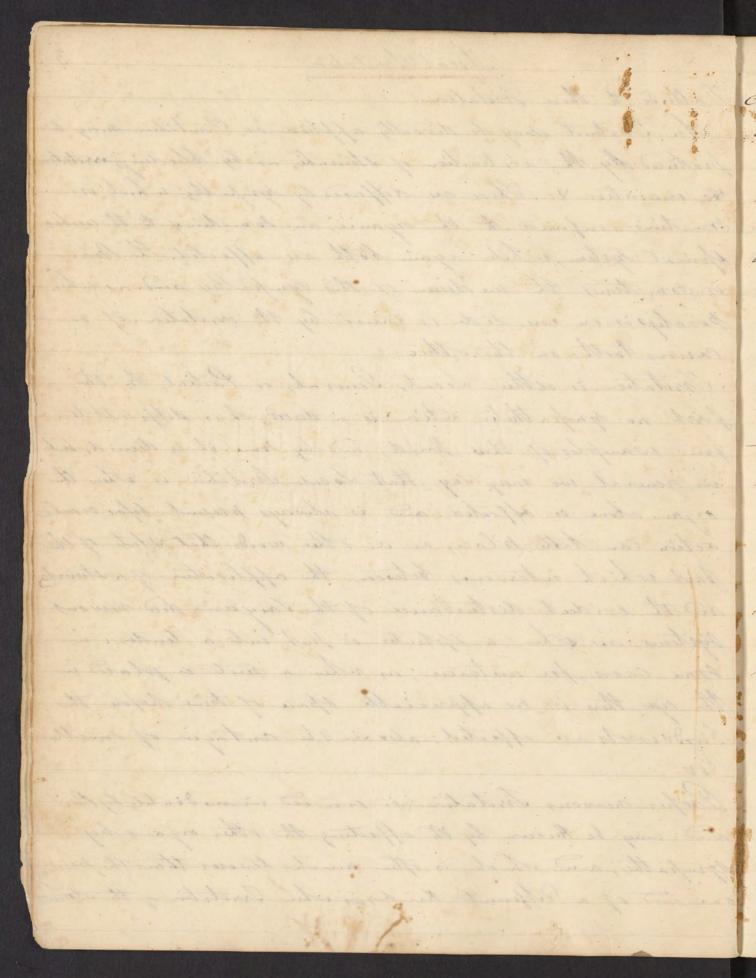
in the root of a conting over the soles will be four took here her had four invited with the deleted and insperiod money was a series or mineral, their which the total of no fine me province the within describer good from carried its war influence that down more than a filler the provided the offer one in the list of the offer of the enformments of constitute sugalities to must someon I were the from the window is the water where the thing is The oliver it first talls white the Prince land of the sopour excessi metalen of tradition when print or state by about a sorthater. It is heefer morey develation to I at which the first from The place the time of with there is the property and reference the second residence and the second second second

Tallude to thon Fristations.

An Fritant snay be tivedly applied, or Estation may be produced by the abstraction of stringlies as by bleeding, writation se inantion &c. There are differed by sympathy, which is sometime, confined to the organice, and sometimes to the levels spring to the land of this dynfally and as when is sometimes the me diene of this sympally and as when paralysis on one side is caused by the irritation of a carrow, booth on the other.

frist no sympathetic action is in duced, It is definitely friend examples of this bried, and by some it is demied, but in general we may day that Local Instability is when the organ above is affected, and is showays present before varial action can take to lace, or in other words that date of the fact which intervenes between the application of a stringly and the evident disturbance of the lacy union and new ons topletens, as when a splinter is put into a lendow: in some cases, for austance, as when a mute is placed in the eye there is no appreciable space of time sefore the bloods exols are effected: also in the contagion of small for.

Proper nervous Tritation is wined in mediately by Pain and may be theorem by its effecting the other organs by Pyrupathe, and Shich is often much severer than the principles one and of a Deferent Kind , as when Trotation of the Stowart



Teneral Trrit: Causes Taxitation of the Heart, as shown by partitations: this in whethethey looper terms densitive irritation. Fritation may be said to be Partial Where Leveral organs. ruly are affected. General Tritation is where the Brain and Spiral marrow with the Gaughionic Lysten are effected, as in Telanus, Hystenio, Lovers De. He is however denied by tome that every organ-Can be offected at the Same time. In Intermittent Then is general Irritation. Organia Tritation Cannot Continue long before vascular action talles place; in a largue majority of cases with tessues are affected at the Same time; but it generally repends one constitution, habit, chinato, disease se. In first morten examination, from buse nervous with tion, no Misorganisation is Leen, when however the basular apparatus is involved we find engoyement de. In many cases of Indden death from concussion of the Brain, there is nothing to be perceived, but if the patient lives for any length of time there may be efficient be. Irritability is modified by age, that is it is greater in Children than in actuty; as in them Convalsions and Tetamis are aft to occur from very thight causes and they organic actions are easily exchautted by stimulants, hence Durgical operations are more rarely performed on them this in common language is wither the effect of weathers. I mean by strong the the power by which a person is

included at takes to the House or white a dood door loss warmed when I was her I with till to me think he was that in enabled to resist or bear diseased actions or impressions; and by weathers the Americation of these provers. There or People have but title his afribility to disease, but when once established, they provers top little powers of recovery. This above much modified by lip, as Temales are much more initable than Males. Also according to the Temperament and what were weaken the dystem as Blood Letting, or what hing discharge of any kind, on this account, the Surgical operations from more fatal in the Two prical Chinates them elsewhen. In these countries they are also more liable to be affected by Itarus, Erysipelas, Morte fications.

In Sympathy the Centro Sprind newer have not much concern in it's propagation, for the it exists in I'lant; \$28's in higher arminals a paratytic limb has caused death without herous irritation. But when it exists in the newer than it is bropagated, and more prequently in the deatient extentity of the newer, very often in the opposite direction as in Irritation of the Merces de, and even something this' the train to the newes of the opposite histe, as in the instance of a casion, both. The irritation is housemented to the bloodnesseds, and cause, an increase of Leave him be. Organic irritation is the prosenic cause of Languine irritation. A course, writation is the prosenic cause of Languine irritation. Account irritation is the prosenic cause of Languine irritation. Account to the prosenic and never gives wire to dauguine irritation tricette. There are some exceptions however to its not being sand genous as pain has caused death: affections of the new genores as pain has caused death: affections of the new of the brain, arounds as in the muscles of the Languine; but

the dimension than it there downers where the Robert the value tresminister allow in mininger begin assisted a goodfile live his his thirtheath without of the Wester yes in some something that the Frain to the Il weekster is harmented to the Headmands and carrey my words of togethin be Symin indiction is to promy and of daysering in atation at heavy institution or town with the main wants as in the more of the warren

Fritation is Levere intettely as there is strength.

Treatment. First remove the existing Causes, whether esternal or internal, mechanical, or chemical. But often it arises sympathetically from local irritation, this latter must be diministred or but hard formating even when it is unioned the Sympathetic affection this remains, in tothe cases we must endeavour to Amenish organic action. For this purpose one of the most powerful remedies is with, either wild air or lota. Seed driets or affusion or unnersion, this however Carnot be und where there is congestion or prostration. 226 Narcotics. All then downish the disciplibility of the new our tystew. Most of them however produce a dtemutating effect on the vascular, bystem, Sence they are called string lating narcolics, on this ace! tome care is necessary. Minn is couridered the best, before fever is developed, and bometing after in judicions combination. Hyorgamus is daid bot Course vas: instation, bometimes digitalis is preferred. Asa\_ Frehda, Hop, Ether, Prun: aaid Ve are all recommended and preferred according to air constances. 3" Fredirect mody are applied hach as taking away food, which is the nature Strundant of the Stomach: also the altradion of Blood which is the nate structant of the Heart. The Lors of Mood will sometime, however aggravate the irritation fas what ever weakers will argment it f. Fories are sometimes employed, and with he found useful provided, they do not

1 n , n 0 1 1 e 0 ( 1 land but mitaling towards a wine character of the House to also the Materian so 6 4

vicrease the fever; to also a nourishing dich, but with caution, as we must always avoid excilement as the same time we give thought. When the strength is durinished by long alstrucuce them Jonis must be used. The preceding remarks apply chiefly to Tenend Fritation, but in the Local and Part at we have revulsive means as disapisms De. There Equalise escritiment, and tetermine from the sait affected. Men Enjoyement wish we employ Local V. J. There also require the internal are of Narcotics from in high cerebral affections !: and also cola which the applied with advantage over the part. I wish now to make a few unash, on the State of the Tystem Called Secretion. This term is not generally used by author however it is considered as a diministroi of organic action Sedation is produced directly and indirectly . Directly as when Evolo is applied, or there may the Sedation of one part while there is irritation of another, as in heflaw: of Brain

Instead of the Hood reshing from a pack that is in a Hate of Dation, it is excluded from it, as when with is the dealy applied the part becomes purple, the blood hening detamined, but after at what time it becomes pale the blood being excluded having receded; when the blood is thus excluded, there is congestion of the venous system; and the corpestion of the given is much permanent. Initiation of an organic with produce in this excluded, in another, as in the daugs there is seen to meeting great action while the Shin and Barts

Courses of Ledation are excessive heat as a read or coll. enfolish Local I. S. Lee who require the attraction directly over them are in a state of sectation. Sedation may be either boeal or general, as an instance of general are may mention old ago. # Marie à Pote; and Consumption the lungs are irritated while there is Ledation in all the other organs; in hybernatury animals one.

Man the Cause is senoved we have seaction which is somethings very violent, somethings a natural reaction take place. Occasionally an irritant with prolling powerful seation, as when heart is applied fail below that temperal which prolling disorganisation.

Prostration, is when the part is depressed Allow the natural standard: here we have dedution and debilit; we have prostration of a part as well as a whole. This is deen when frestons have been plunged into boiling water, or in pun that wounds: long continued pain: propuse evacuation, of any Rinds: poisons &c. The patient be coming pale; feeling admission of childrief, dilated papil, dryness of tongue and fances, was feet and hand, twitchings & e.

The consequences of Ledation are comparatively of little importance. There is here no sympathy except perhaps in the brain, which is the reservoir of the newey, if there is Ledation Af may be transmitted, or in the heart in the Same way. This more Lerious when several. Treatment. First semone the cause, then resort to Stimulants &c. Men there is conjection and Ledation we must use hoth evacuants and Stomulants, doin Hystinale

Phlegmon is Trifle of Cellular tistue.

N.S. acts him by emboathing the conjection, and we should the form he established. The blood at first with he found to flow my show in ansequence of the thickers. but as the arculation is established it with he found to flow much plater. When there is prostration resort to enternal and esternal stringelic. And chareotics, Opinion, but Alkali atther. and Brandy. Opinion with he found the best. The however the patient is sufficient me may apply say Head or me British water to certain parts of his forty, to achas sevents and come authors make no distinctions between look of action and loss of Power. His may be shown as follows. Take two race horses one remarkable for speed and the other for steenfth. The above horse with beat in a long race.

Danguine Irritation

From which its name his been derived: common or simple implanmation for hich always implies initation for defined by authors is the the this and allular membrane. When repid in its progress it is called a caste. When show Chromic Not infuguently there is another hind termed specific as onall Por- mearles &c.

ornale Pore- mearles &c. in all tissue

To hale first speak of simple acute Inflam: as occurring
in a health, individual brice the time of Celous there
have been four prominent symptoms, Iwelling, Reduch

Pain, and Heat. Menewer they are present we may be sure

The roft occumations feeling of an inflam: purt arrises from the free deposition of Lerun. "Whi Twilatio, The Affluors". were as designed in a throw when he soo the development while so hop when for the fire a long the will hear to have the state of the state In Cruptine diseases it is itching; in Course sharp alancimating to see you prove from the second of the second of the

there is Inflam. But there symptom are not always present. Swelling. Inflam: ha, Its seat in the capillaries and welling arises from an enlargement of their versels: far an illustration I befor you to Huster asperiments of after the disease has conturned for some time, there is an effusion of serum and lymph, the latter of which causes the hardness and tourin which is felt. Redness. As the versels are more dilated, more Ten globales enter, and the dervus versels which formedly trains mitted Lerin soro course red blood the chole of which is brighter Than usual. Thuter theirly this owing to a more rapid circulation. Vani is a very important diagnostic, and sometimes is the only indication of heftan: in deep dealed parts. It differs very much in different parts; it detected in the Hands the of dull and heavy; if in the Collector humbrane it is the obling and acute: in the Min, biling: very acute and though in the derons tisdaes: in the Lungs gravitating: in Bone oftere and very painful and in Engripelar burning. The Pain arises from an increase of Lougitidity (in the part / excited & the application of stringle, and is not always defrendent as some suppose upon the degree of pressure, as may be refuted by the aircumstance of Pain being sometimes the furt dysuptom and before the entargement of the Capillaries has taken place: at the Same time it cannot be doubted that pressure does aggravate it: as when It is tituated in dense ungielding parts, as some or Fascia to of dwiled orif

The secretions of a part are always duppressed.

position and with be applied it with metigate the violence in a striking manner Also the more rapid the uplace: the Severer the pain, this is true as respects pourous whose dystems are ut all irritable; while the reverse is the case with them whose constitutions are Thoug; notion also as well as a depending position increase, it. Heat The temperature is in yeared both to the feel and themountercally. but not begown the temperat: of the Hood. The great heat complain & of he The patient is owing to are in crease of densibility which is much severer in the Shin, Please, Intestines, & Stomach, then in the Cellular membrane, muscles, Brain, Lungs, Bones & Paren chipma. It is supposed to be produced by the Tritation of the nerves. Those are the prominent symptoms but then are many Leon day. Ha mu, the or any organ is in flances it cannot be ever ised. Vin in the course of the Tochiate herves denote, Inflam: of the Hip. of in loins of a Male. disease of Festales: of a Female of the literus: a pain in the shoulder Hepatitis &c. This is called point by sympathy There is also universel sympathy as in Fever which result from the nerves.

The all inflammatory fever, there is an increased action of the heart and arteries, meanifestea, by a full, strong, trequent and hard palse, accompanied by a knowinter or suppression of all the secretions. The Phie, norticle, fairing and toughe are they, whose do not decrete, an oversion wine dim in shed, and the new on, system is also affected, & ging No de Florter on Blood. 2. pt Chap. 3.

nine to very impleasant Deusations there is also great capillary Mistention, prewalial uneasures, loss of slup &c. Se. which gives rise to flash and fulness of Lace. Sizy Blood is another symptom of in flam: That this may appear the vifice thould be large to that the blood may flow freely. The coagalium deuse and frim with he found floating in the derum with elevated edges or in a cup form and covered with a zellow or buffs coat & which does not adher to the side of the rend. Is do this however it thouts cool in a moderate temperature and it will be found proportioned to the dyree of inflan: Pregnant female, have this peculiarity of the blood, as also There whose circulation is below par. There are some other each two as Leury De. but generally it is an in direction that there is true Kine of charge in the vascular action. which is modified according to the tissue in which it is shirated and it is sometimes the only symptom of Sufface: in deep Leate a parti. Friday

The Local symptoms are most field according to the parking of its streated. The maner the duspace the deveres the Tuffa. This also greater on the bide mean the duspace, as an Must ation of this, balls and other foreign bodies be come encysted, and remain a great length of him without any rigurious, effect whatever, deep beated in fland is easier cured. I? They are mostified in proportion to the distance from the centre of circulation, as it is greater on the body than in the extremities. 30 The position is another thing the tatter

grow his to fait and juliant of him withy the st wheat Parts that are not organized are incorpable of Inflammation. also Cartilages, i.e. articles cartilages. Buginant femiles claim this positioning of the their exister. -and are all more or less peruptible to our dented. A or a certain previsposition to diseaso. of a part. Manhation of this balls and with free for to the become I'my en motifiet in frequence to the risting forces to anthony sinchature as it is preter in the house that . The scale qualities I have been good the things to his tritte Inflam.

into coursideration. When it is ain a depending part the thord is the termined to it by its gravity and consequently the inflamme is much greater. The severe is the case in a part that is or can be elevated, by which the venous blood is arained from it, and the arter of prevented in a great measure from entering. It to Modefield by Vissue. 5th by the tryan effected. O'the the peculiar state of the parts, as there that have been newly formed, a catrices in a part that has been injured. It the age of the patient has much afterness into the prevent intability is predominant in infants, where in Do Persons it is predominant in infants, where in Do Persons it is hard to existe that the restorative process is my deficient. Other Constitution has much effect, also Temperament, less, Thabit. Climate, & Season.

Enternal. The external are those which operate from without. The internal are those which operate from without. The internal lay or depending on the general of them. The external cause, are his her that with Mechanical act by a direct in jury of the part as bottosions, Homes, From times, foreign bothers in lavities as Calculi, & Extransaction from accidents, of the contents of stomach and Intesting into the cavity of the abdomen for thering Pentounter by c. Friction, and Pressure from from ours be. The Chemical are all there which existe by their Chemical are all there which existe by their Chemical action as Canthanides, ethnical as Canthanides, ethnistand, Fur pentine, and, Poison been some of the Tribans and only on certain parts, as the

is the training to the ing it gravely and consequently the reflect the the stirted by a the eterne, block is seen in for interior of the standard and and the first of the The there the of the parties of his me in all a stranger and and a hair the second and the destroy for in so my legion L'autiste They are diverted by our grows into Excluse as and Assence & eller every latter whereally with often produce on emption on the bline from alle the the contacts of charact in himse Bone of the willian ask ridy on bottom parties the

wine with not exile in flam: of the bladder, or mucous durface of the wether, but with in any other part. Nor with the coule Tuflan. of the Liver, and some writers say that smale Por Virus may be taken into the Stomach with impunity, but if applied to thecker-Jace after the removed of the cutile, violent effects another to follow. The Alie also in a great measure sesist the attacks of testain novoion, inforemion. Cold is usually referred to Chemi cal writants, as chilblains after reporter, also Taffam. of the Brain, Liver, Lungs He. This differs materially from the Causes which have been mentioned as it is a dedative, & not a stimulant and the effect produced by this exporance is in proportion to the reaction; Internal Causes are muneray but their mode of action is unknown to us, in consequence of which they were called by the Ancients - Occult. But this he know, that arteral active cannot exist for any length of time without producing inflain: and other decious affections. Irritation in one organ will thro sympathy produce it in others. · ellary other divisions besides those exumerated have been proposed and adopted by authors, Inch as Predisposing, treating, Irrech and Indirect. By Predisporing or Indirect we are to understand the alteration of a part caused by some agent which under it liable to be affected, but does not affect itself, as cold. which may be applied to the general Lystew. The Direch or Evalung are those which produce the directe itself. Climate Or Proviniate Causes are another division. By Remote you are to understand those causes which act directly on the

" British Large these points have their life elevated"-

Leftam.

the parts. The Provincate is the first link in the chair, or that which being present the disease must exist The tate Pathotogists have abandoned this division | Irritation is the Provuncte Caux of The flam: There previously mentioned as producing troited. The Capillary versels are the Lent of Tufface: & in consequence the news, bloodvenes &c are also in volved. The great question on which Physiologists differ, is whether they are in a state of Exertment or Exhaustion. As regards my own views I believe them to be in a state of high excitement and for the following reasons. It Because any stemules has a much greater effect when a part is will are, than when in a healthy state, as an Inflowing ege carnet bear the light withour considerable pain. 2 de Sensibility is much greater in parts Comparatively intensible in health as Bones Tendous be have that function much increased in an infla. State. 320 The temperature is also greater, and heat is a vital action of the Bloodversely. 4th High artend color law only suise from an increase of vilality, as the qui Mer the circulation the higher the colors; but the reverse of this is the care When the blood is stage and, as in Jangrene from the effects of cold the parts are livia. 5th dyn pathetic action is excited. The All the causes which in crease the action are Strumlants or Tribants. It The Consequence, of Inflammation are the increase of a great quantity of new fluid, divided parts are united, and carches filled up

Thinker caled Taplan' under action allko' as healths one. of Eachtrain de on Eachtraction , and ing our said The following water do the cause my stemates his in Bollam.

m. 16

by depositions, which hall as to believe that they depend on an increased contement. 8th Jangrene is precided by very wollend dynplows, by great and continued exatement previous & its occurrence, this irritability and exilement hibride and it is owing to a subsidence of those that it does not tatte place. It he the treatment we must resort to enhansting and debildating comedies to subdue it, if or the contrary loe work to Jonies, Stevenlants be, to give tom to the duppored weathers and debitits we will aggravate, the disease, as is daily proved; from there realize there Can be titlle doubt but that the parts are excited. Another question has arisen among Pathologists whether Inflam. be a state of healthy exatement or not. This can be easily ausward by companing them to a state of existement in a health beron, by which Bleasing Sensations are in duced, but the reverse is the case in Infl. In health natural and universitating pluit, are Lecreted, but in Infl. they are unatural as Pus. Sympoh, He. which is never lesseted in a healthy part. Hence infl. may be define a to be a morbid recitizent or attered action of the newes and bloodversely which depends whom Something entirely unlinour to us at present. The Lymphatics are also vier olved which when induced terminates in the Secretion of new Philds, tometimes in Jangrene and Seath. Hunter com dered haflamm. To be a morbid in creased action; while Vacca on the contrary manufacula that they evere in an ere hausted or diministed thate. In this he has been

A disproportion between the forward of the cupakeary. for the the duffined marked and the left is with up answer by confirming them to be that free him is in the person by which there is y languisting are in stand , but the landers

Inflam. supported by Allen, Dubbook, Philip, Hastings & others. They supposed that their enlargement was passive and produced by the Vis a Tergo deris ed from the Heart and Arteries . D. Philip suppored That there was a disproportion between the vis a lego and the resistance of the bessels, and when haft takes place the bessels are stagnated. But we maintain that there is an increased action on which the distention or delatation of the vends Departs And not owing to wehaustion. There is also a larger quality of blood flowing thro' the arteries in hall than otherwise and that they are active and not passive. I give you the following Mustrations 1th of the effects of Local Instants, the princture of a needle, or stry of a wasp, with he immeriate: followed by Redup and Buft. Philip befores that contradion takes place first. The same phenomena are produced by the todge unt of a mote under the exclict here the westels instantly wharp and tears are whining secreted. Head who causes an enlargement and increased flow of fluid, The sauce is the case as respects Isritation on the Min &. 2. Internal Structi as Brandy, Prine, Ether, with wierean the Directation and cause entargement of the Capeliaries this cannot be owing to a mechanical insulse, for in these cases the cularger who is often in an inverse ratio to

this cannot be owning to a Much auical influence, for in there cases the enlargement is often in an inverse ratio to the vis a tergo, as when the action of the Heart is violent the Capi Maries are often un disturbed. In Blushing ene fried the face and neck buffused from the operation of certain passions, in all such cases the Huth is only partial a clory deviced from The Plant and whilein the Polity without That there was a disperfunction between the sis a layer in the and that they are dother and not present to pringer the follown to Retrip as Till Mill hopers that archarding place front, The Lower photos on and and produced by the airchation and care sudayen whop the appliance

of owing to the vir a terge of world be universal. But this phenomenon is the result of hervous distation and not of in creased action of the Heach. 3 - In Infancy and Childhood the vase: action is in full action not only to replenish the varior secretions and exerctions to abundant in infance, but especially to furnish materials for growth. His much greater than in adults, for them the phenomena of lefe are Mrin wished to a actain degree and mutrition and Secretion an lessenes. The same may be observed of children while in disease compane In state of health. Ath Whenever there is any new or encreased demand hade or any of the times or surfaces the lapitharies enlarge to mech it, as in the case of that then just men tweed. in the growth of Francours, in the heads of animals recovering their hours: in the organs of generation of female annials in heet, in exections of the peris Se. When there is an increased Secretion from any part, it has the Same effect also in the Menus when impregnated. 5th Mr. Hodgson for Diseases of Arteries P. 247 days that when the laye arteries of a bind are Lecure, it is the minute Pamification, which peritulage & afterwards the laye, but even this in a very small degree, and in some Cales not at all perceptible. Of The Pheromena of Infl. inder Fascia, inyillding membrane, hardened cuticle, Perior lemme Sc, show that it is active not passive. As then is a powerful effort to distend the mentrane made by the herely, this must depend on an wherent power in the wenes themselves or a vis à terço. As it regards the bis à tergo

the second second

it cannot be true, a, the distention is not proportionale to the excitement of the heart and arteries: and in the nest place if the swelling and lension was owing to the ois a tergo, the desistance of the Fascia &c, to far from aggravating ought & cure it by restoring the besistance of between the resistance of the versely and the vis a tego, but wistead of which it is increased and can only be ented by Morthing the Fascia & Tendinous sheath in a transverse direction, and their relieving the pressure. It Inflam is much sever in parts where there is much strong the State of flam. can be es ate I on the Min by Sinapinus & Blisters, in Palients whose what powers and actions on meanly we have ted. When the public cannot hefelt and develove ever, as in Low Typhoia Fivew, great mostrater De, when the vis a tergo much be Americis hed and imperceptible in any way 9th The veins of an ift. part and then going from it are enlarged, according to Dodor Philip the Capillaries are in a congested State and owing to their debility are nearly or quite in a stagnant condition and cannot empty their own cavities. If such be the case how on the veins enlarged? it can only be by an increased grantity of blood in the capellaries. 10th The arteries going to an Infl. Park are also enlarged, Their was in consequence of the visa tego why voes it not take place in parts That are paralyted contured or otherwise debilitated? 11th They are not only enlarged but at the dance hime in a state of increased action, as is adding wheyed by I' Philip huisilf

it count to true you the set to him is not portitioned to the If then he are increased action there must be an increased circulation. e heefere with in in he of the a Found, court pass Alors in the capalitanis. With The Hoteries on

Is as it is proved that the irritation commences in the capillaries and is sympathetically transmitted to the layer versels for com find by Dr. James & others the Same power must be allowed to the cafillaries in der the effect of irritation. That ip's There is that of increased action in the laye versels, and longestion in the capellaries ! The action extends not only to the nessels of the surrounding parts, but of the whole body, & of this be owing to a vis a tego what would be the effect in Tof! Hevers. The weret question relates to the quantity of blood in an If. Park. This is owing to an enlargement of the cepthonics. The belocity is An in creased. For if not, the grantity must be duministed; in proof If these facts It need only mention that the color of an iff. part is much brighter than otherwise. When the motion is retarded the parts become dark and livid, as from sepone to cold in low Typhoid Fever, from the application of Ligature, Bandage, de. The lumperature also is in oreans as proved by experiments of Hunter, looper and others. If you make pressure on in inflam. part it becomes frate but as doon is it is removed the whour with whem with great rapidity, when too made on parts that are tooks it returns very stowly. In a vives made in Tuft. Part are followed by profuse Hemorrhagies which are difficult to be restrained. This emitted not only in greater quantity But with greater impelier, and is sinch brighter. That larger quantities are carried to an infl. put is prove by the fulness, terrior & putration of the supplying arteries.

history is let go did the frish drawn . I will the s her

As such is the case when becomes of the blood if it were stagewent in the capitaries as support by Philip and others. Hywords certainly bunch or gangreene would shooth ensue. But the news are about found enlarged, and in a greater profrestion [Home] than the arteries, and thus the in flam is to died. Against we apply a ligature and open a vein at an aitheau. bash we will brish the blood resembling more an asternal extor than in a state of health. This also thrown out with much greater velocity. The aboundant secretion of Semme, Lymph. & Pas, as fuguently observe, are also increase, which can only be produced by an in creater greatly of blood in the pasts.

There facts oppose the doctrine of Minemished action as abovated by Philip's his extemporaries, and, in my opinion, prove that the capitanies are a stevely engaged in Transmitting that outant fluid which is essential not only to decreter and mutrition but also to reparation, is that they possess enefrance, it left as well as contractibility, and that both are more defications of the virilability of many modern Pathologish, that the Heart articles and Capitaines twosess this property of tracting mules the wiference of their more at stimuli, but not from any vis a tergo.

The neck question that engages our attention is the Progress and Terminations of Inflammation The Terminations may be arranged meder six heads

Inflam is caused by writation for anced a morbid excitement. park one with first the those resountleing mum an action in the parties to the parties of the same of by Whileft & his after forming full in my operan, pow that

Term: of Inflam. Let Delitercence. 2ª Resolution 3! Coretion of Lemm or restoration of the nat: secretion of the part. If the levetion of Fibrine or longul: Lymph, 3th Secretion of Pus and Ith Gangrend. By Weh ter conce we mean a sudden to flaxing anation of the Suffam: as in Herrie Humoralis which with often disappear winnediatety by induning a Mistheye from the Wrether. It also occurs in der many defferent circumstances 1th cts when the cause is removed. 20 When from uful Ledatives or astrugents are used, as a Ban is frequently and by winner's te un mersion in cold. 30 Powerful Counter irritants as Phisters, Mustand, Plasters Ac as in Pleuring is like Miseases. et violent Inflam: in one organ with cure it in another, as two diseases count ewish at one time [ Hunter f the weather giving way Ith stronger. 4th I che tes cener often oc curs from violent inflammators affections in one part, and Letters in another as in Sout when removed from the ball of the great toe, generally tolles on some internal organ, this translation is letned Metartasis & is prequently manifested in Chronic affection particularly when in bad Constitutions. This is very important to the Lungeon, as a Browledge of this fact with prevent his healing up oto Man and whe diseases, as it with certainly be at the expense of the patients halth Constitution and perhaps life. 2. Tenniation is beg Resolution, This is when the phenomena as Heat Pain, Swelling & Redrift decline gradually and the organ

I we do Pleasing a lite three as I willed hopen in the open with consiste in one than as how they every com south at our time of the weather growing in to the stronger of the deletioning of the security from soiland offeten father of when is to low thisting. They it with instant to be at the suffering of the partie to lead to returns to its natural condition without any devangement. 172 i daid that the constin of pain is the most favorette tipe in this form I hat Burns Menies that this ever happens as there is always some Lecretion of some Kind in every with. of not in the part thelf at some this tance. This is abony opinion 3- Jenne is by a secution of a server this or a material decretion of a part, as is seen in cellular menbrane producing redence and also in cavilies. This also fre quently deen around witham. Barts Tropsies are prequently the cause of it. This effesion is generally the result of a moderate degree of inflam: win old persons or those who are intemperate. It is often favorable but when it occurs in the Brain, Thoras, Abdomen He it is very dangerous. Litt This is a decretion of coagulating lyouph or fibrine which is termed the achesine Hage. It resembles Much the fibrine of the blood. It is Laid to vary in different to my of the body, and it occurs very soon after Tuff. her been exalett. Thompson days that if in 4 hours after the part have been in apposition they are deparated Ih with he formed. It is the bond of union between all divide a parts and very toom be comed organised. ( Serum never be cong organised The is called union by the frish intention or the adherine Stage of The flower: The always assumes the mature of the part inquired, as in Bone of forms bone, in Shin . Shin . It: The time required for the formation of vinds is very short, in good constitution, it will latte place in 6

Fire he have it sticked the part on it seem in allular from partie only to the and who is included the other from pent it wie and wither forthe chapering out proposedly the coinse of the Res of projects in good with near the of in maderiale tegen to a planewing of powers or their who and when with the often from the hold when it so the Minney Thomas Nothing to the is my day property at the other is a second of supplication of supplications the person of the Block The is down to very in the final long of the hady and the second was there after Tape has been college the fire for that if is options after the part down I. The in the low of main determe with which the front y come to wind soprained from in

how and becomes strong in 8, 4 in 24 it may be injected. The advantages arising from this effusion are innumerable, as by it divided parts are united, hemorrhayes stopped, abrunes circumsented, foreign bodies encysted and thus prevented from derig injung &c. Without it, un should be unable to account for any of the phenomena occurring after Ausgical. The occurs much more readily in some Lustay that in others, as the Min, cell: memb. & a i while in Bone, Tendon de it is much longer; and in Mucous Mul. it is doubtful whether it ever occurs. It accumulates in Mucous Cavities as in the Desophages, Tracked &c, forency false membranes. Altho' some parts are more capable are more capable of ablusive inflam: than others, it occurs in every part of the body that is organised, muron membranes excepted. The also occurs more readily in theip seated parts them in there more external (as the Tuff. is not to violent ! This deposition frequently occurs in the substance of a time, as well as on the surface, this is demonstrated in the formation of Callons edges to May also be their depositions, strictures are formed, which hering secreted in the substance and not from the surfaces of the parts of vigines the parietes of the Tube by lessening it calibre, as in the Stomach. Intertines, Bladder, Wrethra, The also occur in parts of a Glandelar Structure And as the Manuma, Prain, Liver, Lungs, Festile Oc. This in di cation has been couri dere by some as a deferent and

all attended and in from their afficience are to account for my of the I humaning as it is sintiful whether it sain occurs Therein his tan is to a transing as well as on this show This assertion, whicher in it colleges in the Simuel Statem Michigan course in said to a selected from the

The amation. Hepatization is sometime, and when the dunys are affected. Sometimes there Indurations remain permanent in correquence of their not being acted on by the absorbants but generally after the lapse of a certain period they are removed. They should always have time, as there are many cases of we tripletion of the chammers. Testide se afour news bring affected by Schirms se. Is the disgrace of the duryeon when time alone was sufficient for its removed.

Icabbeing. When from Llight wounds there is a much quantity of blood effected; it becomes hard, and fours a deal. by this the Tuff. is rendered milder than it we proved to air. Lymph is Afred under the part, and union goes on precisely analogous to those of other parts. They may be formed not only from dry blood, but also from Mancus, Pus de. The sum aircumestances occur when parts head under Court Haster Gold. Beaters Skin bre. This termination is more favorable Than any other is in many cases advantageous, even when it causes afteration of Structure, it is preparable to thon Carried by Suffuration, as the latter not only Coungreat differing but at the Same time very great deformity. 5th To that which arises from the Lecretion or deposition of Pus. When in flam. is very raprid and Levere it transunds the abherire Itage, and terminals in the Lecretion of a Jearlian third called Ford ( This is catted the suppurative Stage of hell . The tendency of a part to defouration is manifested

on affection of the chiese there I there they have no process They then I drivered a firm them there have no main corn the on and the state their officers in heaving here are my for the Edges the is effected any in the finite fine among fine in secret or Par Mar in fine in the may defer it and france it is a denter plant on the fraging with the first and and

by certain phenomene, buch is an aggravation of ale the typuls. in oreased, Pain Levere attended with Pulsation or throbbing. The formation on the contrary is indicated by a solvi dence of the dynaptons, which touchines tattes place very rapidly but the pudsation that continues. The leasin is lessened and the part relayed, the swelling becomes comical and soft, fluctuations are very perceptible, also a Lensation of cold and thisering the Min becomes pale &c. Ithen it is deepty seated as under the Lascia and the like the Diregnows it not to percaptible, and with require some experience to decide for here we have only to depend on the throbbing and Rigors, which are here in dications of the formation of Pus. When it is formed in a good constitution and health part it has has been termed landable or healthy. It is of a greenish yellow color resembling cream. When heated it has a He is heavier than water, and found to consist of male globales floating in a thin watery or serous third which may be loagulated by the elliniate of Ammonia. The properties are mild and univeritating and do swt couch endels exposed to the air, as we see parts over which it Barres frequently exceriated, while the durface from which it early is healthy. But then properties vary in all diseases according to the organ, part, or time in which it is testuated. The constitution also has much effect

a process in a good localitation as hall from I will

Tornation of elbeckles. as will as the violence of the Tuft. When show the pus is thin with flakes of lymph; & when it is very violent and active, it is found watery, very acrid and mised with globules of blood. The such Cases it putibles very readily. This has been termed. Tchor. The also varies according to the testue as in the diver it resembles Bite. Our was formerly toppined to be owing to a breaking down, or from a dissolution of the soft parts. Both this doctrine has long since been enplotted and hice the year 1743, it has been taught by Hunter that it was a Lecretion. To proof of its being in defren dent of a solution of continuity we have only to observe who formation from the funice Conjunction in hip. of that organ, also in Bronchia. Unetter Se, and many other turful as Pleura, Thoran, Periton come or the Skin where the auticle has been removed by burn or theter ell organs do not decrete pus equally; as in mucous ment: it la easily be adduced. But it requires long violent and toutimes Buft. Se fore it with occur in a derous Fisher; as a bougie Hanter finter the es into the Methre with cause it to take place in 5 hours, but in Cellular, Memb: it requires 12 or 14 hours before it with he pro decid. Formation of Abscesses. In this there is an inflammation

Fromation of Abscesses. In this there is an inflammation of the atherine this in the Cell: Firme by which the cells and cavities are filled with Lerum, the Tuff: continuing four is formed, and is their termed Phlegmonous. The Snatter is generally formed in the centre, is by its premise

the the the warm warmed to the later in the state in Manne of the sin Parallel among or the other a har the Tonne there i Experted . I this there is an in flow weater

The all. Member inince or ately around the park in undered deuse by the appriction of coagulable lymph, I hich also forms a cept or membrane liming the cavily, which by an increased secretion of matter continues to in crease in soir ( in this are we have both absorbent and Lymphatic Tritation).

Sometimes this enlargement does not occur, and the absorbents remove the matter as fach as it is formed, & many cases faster, as we prequently Lee abscesses removed in this way, it is then baid to be discussed: by which nothing more is me and, than a removal of the matter by the absorbents, in which case the bides of the absens are enabled to contract & the backs to assume their natural State. In other cases where the decretion is greater than the absorption, the enlargement tatte place from all sides of the Cavity, but mostly from that nech the surface by which the bart ans rendered thin ( This also thew that this has no corrobing fromer as was formerly dropposed f. This has been termed Interstitial absorption. But Mr. Thunter Lays that there is another, which he calls relaxation, and compares it to that which takes slace in the Venital organs during labour.

Progressive or Marative absorption is where there is a removed of the parts or a solution of continuity. When by retaxation & absorption abscerses arrive at the surface, at which time an opening is made by supturing the article, & the opening

The who divergely sain one or will seen and the plant is the seen don triber this on largering has not come, in the when comment the author on part in the in principly income law as we prepared in abition another the way in the then have the discussion by which nothing me I have the decetion is greater than the whatthen the months from that read the dealers by which the trans another estimate his calle relaceation and compo

continuing to enlarge forms an alcer; and it then takes the name of Menature Suff. which also has been regarded or one of the Terminiation of Puff. but this is not the case and it can only be corn dered as a consequence. The occurs more readily in parts that are presend upon, but is not always produced by pressure as it is the product of abscerves when pressure does not with: now is its rapidity enterely owing to this cause. Alleration is always in dependant upon wife, and is preceded by the effection of cogul: lymph as in abscesses, an envisor of e. the short of this adversaries to present the discharge of the short do. If this adversarie infl, does not take place dangerous oursequences would often result, that take place dangerous soursequences would often result, that takely it was supposed that alceration was always preceded by supposed that alceration was always preceded by supposed that alceration was always preceded by supposed this is generally the case it is out always as an is take we may mention aneurisms.

Igniflows. When it is superficial and pind it enlarging in size; the edges virigalar and executated, the pain is severe lanconiating ain of a granning Mind. The constitution suffers smuch in many instances (The occurs much more readily in some testines than in other; under Fascise be it is very lettions and towned for some Mestance under them. This more liable to attack newly formed parts such as cications termonis see than those that have existed longer. Something the Meanative process as and to repet for the place, in such least frightful consequent in flare: Cannot take place, in such cases frightful consequent

are the result, as may be frequently deen in opening of cavities arteries &c. But in other cases it is sound very advantageous in facilitating the removal of foreign bokies, distroying Jumours, reperating dead from living parts, opening absence, The allular & Adipose Fishers Suffer most. Enflam. not only destroys but also requerates partias in the formation of Frankations, he this process the tides of the cards Throw out a layer of coegulating lyugh which very soon be comes organised and has its durface covered with Anale convex bodies like granules. They are very vasaler formed of a new work of versels and nerves, and from the absorbents entering into their composition they are easily thestroyed. Franchations when healthy are made comical bodies of a bright arterial color, very delicate, secrete Jus, & vary with every form of the constitution . Sir. a. Cooper says that they secrete fibrice win this way layer after layer is formed until the cavity is filled. This not every Supporating durface that can grain late, as it does not latte place in som cons or knows member: in fach they can. not be formed unless there he a tolection of continuity. Framelations possess two manifest properties: the 1th in the power they have of strongly min ting together, supposed by Hunter to be by a direct wherion of its verily. While Thompson & Cooper believe of to be by the effection of Agriph. Therewer union takes place by the foundation of Frambations of is catter Minon by the De con Theation.

in facilitating the minoral of prays bottom raphores The claim later on this principle of the line is car to de to be held which I be not all the who days that the sent forming in the way lawrage is former with the cavity of folias. Their when the former than he are of theory by him him to protein subday

it has also been termed Thearmation or union by the formation of new flex. The I'd Property is its power of Contraction was to aminish the part affected in this way a large Milce is often aminished 1/3 or 1/2 of its size, before any new thin is formed under it situated on such parts as with prevent this power from taking blace, as on the Cramine, This & other bony Impaces. This contraction arises from the parts becoming con + dense, by which the vessels are made mader, and in this way the parts are drawn together. From this very great adbeutages would, as by it whoers are rendered much smaller and consignately much lett hew this with be required to lover then The sides of the cavity are also approximated to a certain degree and less new matter is required to felich. But accasionally great disadvantages result, for in some Cases after a part has been completely covered over with the Alin the part conting to contract, and by this means great defarmity is induced as in the Case where abserves have been forme in the hand, which in correquence of this contraction has the frigers Mour together. the dance occurs in the face, producing great distortion. Ablance have but telle Asposition to grametate until they an where from pressure, produced by the contained matter, but as soon as this is servored the electration is suspended and the parts very soon contract and file up. The Granda. how four more readily at the britten of the cavity than any other part, in from cases it is necessary to telach the Min entirely Abserver then may be said to be diminished by two circum

Emission the back affect

Hance, I'm By a felling up with Fram taking, 2. By their adhering together and contracting. Generally, a Tenever Same tations fill up a cavity, they assume the nature of a part injune of that This is not always the case especially as throughes museles, carthage, se. as in the first the parts are united by a this of Studen in the sewed by Bone, After the part is filled up we see nothing but a small where at its morth, which soon be ames filled up, and instead of the edges being undermined as in It fish wistance, they will be found tapening and covered with a thin while buttance called a Cicatrix. Sometime, this Cicatrization commences in the centre by small spots, but elst: Cooper believes that new Shin Can only be formed by Franchations, from the old, Mence the reason that they are always formed at the edges of the Mer. The Cicatrine when first formed is very vascular, but it exist for any length of time, the versels are contracted it becomes les florid, thinner, whiler, and more theticate. it is also depund below the Impace, and finally takes on

The wile the cication be so should as to be cone fixed it with the continue to should as to be come fixed it with the cication to should as to be come fixed it with this continue to diminish by the formation of new shim.

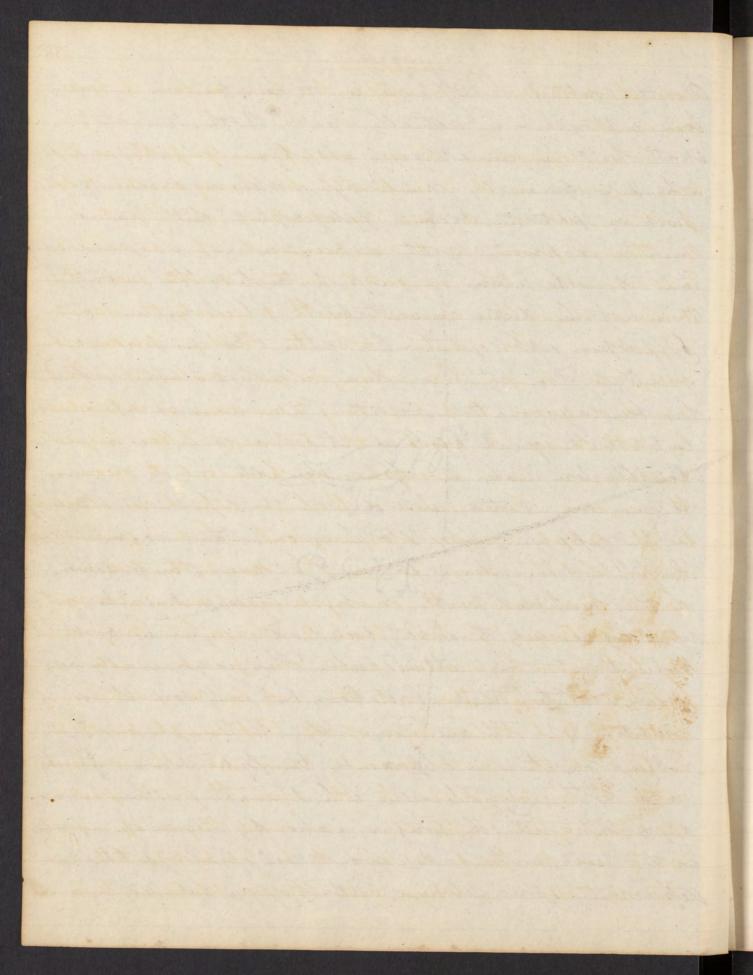
The first place, the opening may be too small, by which the matter with continue to press on the cavity, & present Somulations.

give nice to what is called firstly in the 20 place depression the down is the last the state for this will parts on himmy district the the per her hereber out with nothing had then been one, there in Justing of the same of your man have they

and destructure in its consequences. Then from any cause it has not ended in either termination and is about to assume a Sangrenous form we fund wiflam: and pain coun'devably augmented, the wift: being very much estended and in a thout time we that perceive a change of color in the part which alters from a tright arteral color to a white and afterwards hord or venous here them the hear becomes lep, and the park Cold; but the pain till continues while the circulation becomes slow eccompanied beg effusion in the cell: membr: & the Shin forming bloods Mister termed . The haft: having submitted the parts become soft and flaceid, after which it is tormed Taugrene in which the powers of vitatit, are much duranto But this thate cannot worth for any length of time for under it is soon diminished, it be women perfectly black cold, with, viseusible and toustines orefutation (which aring from an efferior of gas into the cell: menitor ) and the airalatur entirely dimenished. This that is termed Sphaceles, in which the vital properties are quite look. The distinction between Sphaalus and Jacque is mantamed by many authors and denied by others, to my own back I thin it enestially necessary. By Jangrene then we mean that state where recovery is possible & where the vilat functions are diminished to a certain degree but not entirely gone, or in other word, the part may be said to be in a deping state.

to delite and afterward land a severe had along the Sangerm we would be priving of or land on more to included a track their winder that that in tends Public sometimes full: the gateout public of It Rush

On the contrary in Ophacelies the functions are entirely look & the part is actually dead. Both there states. shouto be Fistingsiis hed from Asphyxia or apparent death which is generally caused by a blow or Mouvering. The part or patient become pale, cold be, and there is quite a suspension of the airculation, but after a short time it wet return if property treated; this is owning to a certain degree of irritability which remains and & proper application. The patient or part is resuscitated. From this we may infer that after Taffam. has been aggravated and the theromena of life manifested with great violence, that Jangrene occurs and finally lerwinales in Aphaceles, after which the blood. become, coagulated not only in the lefi Maries, but also in the depplying versels. This incurstance accounts for the title hemorrhage following in as win amputations in the mortified part. To mort laser perting action giving Tire very readily to a very facted odor, injurious to the patient and his attendants. Then is generally very great constitutional viritation, but very soon the violent Symptoms of Tuffam. Fever begin to disappear, and a sulling condition is apparent, the pube becomes girell Small & thready. The thin which was at first hot be ame, dry of contracted, the tou gue is also dry an covered, as well as the teeth, with for des, great cert leprus, jactitations alepression of spirits, delirium, wildness of eye, Subrullus Lendinum



hiceough, cold tweats Bo, and un less som relieved the patient dies come tore. Tuesday May 10. 31

There symptoms do not wire from sympathy as has been supposed fas it is empossible for howing matter to sym. pattine with dead | but by absorption of the putrid matter, as proved by the experiments of Jaspard & Magen dies, who ringected putrid matter with the reins of healthy annicals with precisely the Lame effect. - The question whether Taplam. produces Sangrew by its peculiar action, or by its violence has led to much discussion. But according to my views it is brodued by both causes. In proof of the habure of The Man. hasgeent influence in Causing Taupren we have only to warnine the common Furmenles or Boil in which we always Lee the celled: member stoughing out, which is generally Thrown by the name of cond. The same is the case in made Por, also by the maliprancy of annial or reget: poisons Boger | putrid fever & Hospital Jaugrene the latter of which arises from true pearliar action or Hab of the Constitution (all there ach by their particular nature 1. But the virlence of the Inflam. it must be confered is the hist common cause, and this violence may be in proportion to the then the of the part or activity of the Table as a nuterate degree of wife. in a weak part is Said to be virlet, while on the contrary in a strong back the symplones much be very

Gangrene.

violent to produce bad effects, coursequant to much anim from the severity of the Teff. or weatherp of the part, hence it may be daid that there is a disproportion, between the activity of the Teff. and the strength of the part, the organic

action is too strong for the part. Every testure of the body is endowed with a certain degree of strength which cannot be existed beyond ce tain limits without deriving consequences arising. The the first place in weared action and unusual writing and of the dame the the part was strong when fint attacked. It may be caused by improper treatment & Keph up by the come semaining: as if theire be estravasated in any of the testues it with not only-excite inflitet it with he kept up as long as its irritability with hear it or until the part is quite exhausted. The dame is the case in violent hoff. of the viscera as the parts cannot bear to much excessive action. I limulating rune dies with sow times cause it. A full plethouse habit may be courilled to prediction to Lift. & Sangrene. 2° h weak parts as Bone, Landon, Lijancet, Cell: Ment. & Sangrene is more aft to occur Than in parts possessing more vitality, as in them it with foognants arive from causes that would only exute the other parts to a certain degree hence we Lay that they are raturally weak. The same is the Case in parts debilitated from lon lusives Cold & actual of the Table no the strongthe of the parts the oran Every tooker of the today or - Hours within a taken sugar without during towers in as any The the tout place the the back was started or being attacked it in me who as long up it is the telest with he will be to the the ball to the voices is the part law or has to me to he was in notion . I timed when y seemed by with four otimes care it it held to Pengreen 2" To week part on them. To down wite poor with a sine from consist that is on to one the last is part defectated from for turning

as they will hut under the strumber of their own arterial \$ 6000. This Iheromenon occurs also in Fumous and news! former parts. This stage has been by Thompson termed Gangunors Taffam: and when abscerses from this me called Jangrencous et beerses. In many Inch cares we with he able to araw away this' the opening the cellul. wents: which very much resembles Wet For

Tangrene is frequently arrested by the rakes. Hage of Ent. and the parts be were hand from the effusion of lymph, which is generally attended with much in convenience, and in Vital organs, Death is not infrequently the result. He wil also occur in person , whom constitution, are worn out by any chronic disease, from slight causes: and we not empreguently see in ocean in those to ho have suffered from constitutional affections as Scropele, while twellings &e. In the latter it is of fuguent occurrence and attacks the streng after amputation. The Im is the case in Hechi Malignant and Typhus Hevers from the nure application of blisters. This wil unfrequently arises who is oto Moprical patients, here when parts are weath from accident, age, or state of constitution we much be cantion, not to induce action too violent for the Bestom, to this we may add that Janguene is caused by very were ted or depressed state of the System.

Consequences of Morte fication offer mortefication has occurred the dead part is to be regarded as a foreign hitstance Imply having a mechanical union or conveyion with The

inscores as we all which a low as the with hate water the storm land the collect Education of General The in discount on whigh the courter I and the some in home when from builth land affection is downlot while do there by after an factation. The law in the course the factor and office There's down the love application as Making the date on wind her last date of ever stale is getter

surrounding parts by it's versely. But the adjoining parts very soon become contaminated and mortify also and in their way we not infrequently see the whole himb comover. This arives in the At place from the original infl: leaving the parts dus rounding the Horgh in a wealt Itate: 20 from the Letation influence produced by the mostified part, which renders the sound part in capable of bearing the Stringles of the own atterial blood, & the much anical veritation of the slough. In this way the disease estends mutil it comes to a part of ficiently strong to withstand its influence, This condition of the part is generally aggravatell by a bad state of the general System arising from the absorption of putrid matter. But dometimes the mortification is arested by the dead parts acting as a mechanical irritant thereby causing wift: which is first seen in the form of a red line, but is soon followed by a Secretion of series Causing a Histor. Lymphatic irvita how is next in duced and the dead parts on deparated by alceration absorption. After the Mark is removed, the Shoup supporter for a short time, granulations are thrown out & the parts head in the natural way Lymphatic irritation is seen in every organists part, and is of thelf sufficient to remove a whole limb, provided the constitution can beauth . The line of deparation with vary in the defences homes according to their degree of strength, as the weather the park the higher the Hough with extend. This is very dell exemplified in their, muscles, arteries, veins, newy so

description parts by the boards. But the allower during we not interestly be the whole hours are you in on It this way the viver rate is notif it come in he feel the is doirt then in the June of a all dies , to be a test fellow & the fronts thank in the chalmat lang algorithatis in he bear the the line of toparation and may be the before

Coursey: of Mortif: an which it with cause them to divide as if by the things while in Bone, Tendow, Fascia, Ligament Cell: Members it with extend to a greater distance above the hast hence we may that parts divide in proportion to the degree of vitatity they promy. Tohacelas may be induced by many other causes than those mentioned, and has been treated of unto 2 heads: vij: As occurring with or without wifeau: The set of that arising from willam: we have treated of wheaty, and I shall now mention only such as occur without it. They are called either External or Internal, The external is again dwilled into Chemical and Michanical. The 1th Chemical are those by which the vilat properties we destroyed by their activity and before hoff is in duesd comong them we may mention Carthis, Acids, thotal Can ley, reget: Min: and Animal Poisons: & against all of which the vital parts lesist but are wistantly over come and the park at once the troyed. 2? the Mechanical are buch as Contusions, In Show Monds, Premers, the latter of which may produce it at once when to violent as to preval The Whole areulation, both venous and artenal, as frequently happens to persons to he have been confined to bed for a long time 20 from pressure merely in the vein allowing the lister: lived: to go on, a, in the application of Bandages which first cause time faction and afterwards mortifice tion. It also occurs in Strangulated Herma. Bu

Fremme on the arteries alone with cause it as proved by

earlies to the a greater district above the hast you on in visiting from tellions for how that it is for health sail I is again that into Therene to a Michaele

the application of a ligature whom the main artery of a buil. This also produced by pressure from Tumours. Besides those men. timed it as repposed to arise from a diseased condition of the Heart and Arteries. Hoagson days that it is ving & a suspension of the Cafillary circulation I doubted by many Of the Internal Causes we Amoro but very title, as a general sule however we call all thou internal, when we cannot detect any injurious or external agent to which we can dutifactory ascribe it. This form is querally designated by the leve Thiopathie, which is hoppored To arive from the exhbition of some deteteriors articles as Ergot Ve. eler Tessier relates many cases of its pening produced by the exhibition of Ergoh to healthy annials. The also been ascribed to an ossification of the arteries: & a wagulation of blood in them; or some other mechanical do through When mortification of this Kind is ainduced of is very bable to spread considerably beyond the place of its commencement: as sorved by the applie: of a ligature to the main arters of a lind; the parts below being deforived of Hood som turtly which wile in a very though time extend to those parts whore from which the How has not been taken. This condition is very much facilitated by the weatheress of the part as web as constitution.

The Programs in many cases is owing to or depends on some Constitutional irritation. In Plothoric persons a whole link is not unfrequently sen over, generally however the athetine

interested services his colo all season weekend Muse thereberger has by this think is a second of is near little to The causes that produce this disease in some cases act very repribly in others very slowly which air cours tance has given use to the durision of Aut and Chronic or Hermid & Dry.

By exente or Humid we mean that species in which a part morte his tapidly that the blood is not absorbed, con squents the part remains, moist putrefaction occurs very readily [ here the danger in this form attended with more or less constitution at affection. In the contrary it is termed Chronic or Dry when this process for on Howly, and the phenomena gradually diminish by which the fluids are aborted, and the parts become quite any and very black resembling an anal: preparation we which me putrefaction occurs and is unattended by Constitutional irritation, it show relearation finally occur which gradually detaches the part. The causes of this form are not generally Known. Fibro whates a Case which he hopfore Dw duced by fractive, and Boyer one produced by tryht Bandage. [ Both' Sang rene or that which the describes as talking Islace in ord person is the same as that Bro Nuced by Esgot . They differ but little in appearance and give wire to the fame phenoneum. The Hamid or elloist is the most dangering, and with requestly be found to priduce death. When Dry the park acts suply as a mechanical viritant and with four destroy

within words the mort produce of the or beach a core to the polar. ledwilly in the very stouck to read in court once had begundly the fresh temains must probe freshis or cert say and below of his with all wife in this form attacked with is which my putrehading stores and in tendle the ling consiste loved initation, it the Edwarding trivally bern in out serioubly their liter where on produced by hyal time days, the his majories or

the part treet only. Friday May 13 31.

Treatment of Inflammation. In the heat of Inflam: we must first evanine the cause, after which decide which termination is most desirable and how it is & be accomplished. The thout also theterwine whether the cause be Tatemal or Esternal, Muchanical or Chemical, and whether it is Itile acting or not. It it is we should remove it as soon as possible, by: When me chanical, met as a towigh boly lodger, we should remove it soon as possible by making incisions for that purpose, and the the incision that with cause hoflan: yet it is preferable to the Cause ten aining Preserve in many instances with cause it, and must be renewed by dwilling Fascise, Stricture, and loosening Bandages, umovning splints, opening abscesses, semony Fermion &c. The Chemi: al laures are not to easily managed but much may be done to metigate its violence. If there is entravaration of Wine make free incisions and let it out or of an allati has been applied it may be neutralized by an acid, and view beste.

Athe Cause should be internal regulate the exclusion here we with find Emeters and Catharters very useful, and in many cares with remove the cause ( the emeter often cause, the Ersanthemental. The often happens however that after the cause is removed the Inflam: loss not but it. In such cases the Aurgeon must decide a house what termination

Markeyments of beliefe my in their in the hind in third down it so her as formed, by to have me change to produce as a done or holy letter un them to be no I four on provide by receiving warmer, for that their preferation to the Cause for animy Presence is in in and a dish barre ging and must be decreed by decling ad season an extente expelle morning but mich man less to medigate its traderial the three is so how ration White Mille live principles start the at well on the win I'M and show him to be in him to the south have one with fact in that the last after they weeked their en is most derivable. Tenerally Resolution with be found to, as in borns: but when the cause is internal there is danger of metastasis, Bout son etrine suppuration is better. In weternal Infl: as on the extremities be a serous effusion is less infamous than an atherive one, but when riternal the adhes: is much better than the serous, as they with cause stopsy which is very dangerous particularly in the Chest. This much botter in such cases to have the rides of the please at here to theer, then to have the water floating about in the cavity. I also in haised Wounds the effusion lymph is much more desir able than any other. In some cased however we cannot avoid hoppuration so fact it is absolutely necessary in Carbandes, In that would, Spharles, It. And when this is the case no time should be look but it thouts be promoted, to that the slough may be detached as took as promible. The liability of part to ter-The means the Vargeon has in his power, the' it offersteld in some cases by removing timors se. He thout also realled that owing to certain agrees of Juff: ariam stages of Tall: are hiable to occur fas mentioned when treating of differ ent termination . Hence to accomplish any desired lerwin atom he should regulate the degree of excetement by ouch means as with prevent the Taff: from being wither too violent or too weak. Generally it is too violent and should be reduced by the establishes the reme dies.

is made their able . Fernandly Their lation with the found to me berown tot when the course it interned there is danger the Sufficer the extremities by a terres efferior a low infor The Teneral, calculated to reduce the Sympathetic excitement of the explicit. The carelle to also in There I Mount the effe Its rapid and todalen abstraction operates = We still when this is to take no this whome he had description of houses to dangering though he serietil has the reason the Dayer they in his present the it operated in their cases by convery from an he the shorter while of the History hindle the committee mention to be history and though he wherein he the executive sensitive

Sometimes however in old and dobittated persons of is too weak in much cures we must give a generous dich. Towns, & even general and local thursants as in cases of Fracture to Rich up The Man: sufficient for the one. But as a general rule we must be prepared to moderate the general and local Symptoms by lessering the existement of the dysten. It of the General. In Teflam. Fever there is an increased excitement of the vortinal and cherrous Lystens, and popular teoretions, in which the first object is to moderate action and restone tecretions. It accomplish this we must resort to V.S. This operates 1th by Am wishing newons excite. ment as manifested by dimensto action sensibility and irritability, and by a disposition to syncope. It lessens the continent of the vascular bystem, which may be Privar by the Justre being lessened drum wished heat 8. 30 The newous and vascular exatement being diminished it is accompanied by a restoration of the Lactions, which is ascertained by the Jongue becoming moist, thrist lessened. and bowneds and Richneys ofren. The 4th effect is that opendsin which determines the blood from the part affected, and drives it to that from which it is Howing. Is when wend a layer quantity of this third is therwind & this opening and if soprious a Unmention of it takes places other parts, hence the growthy sent to an inflamed part or levened as well as its momentum. In this way we are not imprequently another I fave a patient's life who is attacked with Hamofstysis

· Thick on Takan bose times new in the and dote Wated person it is to want queened son local this intach at in cases of Frather to this It of the stemped . In wife in storm their is a minima physical territions; is which the first object to min relieve and desting townships to account took this me need and I feel this operates all by divents har miner in heart in someter led the Him waster whim some belief in wilabelity, and by a disposition to squaper Is it long the scale were to the last colde day law, which we are feel administrated by the course determined south the second a compare or within of the flow in Making wind to the oppose hand, since the condition that to an expense have a terrise as hale as its more in home the this head in so not he as a first by opening a vein which may determine the blood from the Lings. 5th by a diminution of plethora or a preternatural quantity of blood in the System. ( Females from a suspension of the meures are affected with this ! But there is also in internal polethose as manifested by pressure and filmb about the chest and head, but still the capi lavies are not distended and the Surface is generally pale. From there circumstances we will be that the advantages arising from T. S. when bout or general are very great, and it is much more advantageous When vetracted rapidly. Some doubt this and day made and repeted bludings are preferable but as our object is to diminish the action of the newers and Vascular tysten we should bleed until a deceded effect is produced by which we prepare the system for other remedies. He should extract a large quantity in an erech frontin until syncope some times. But thould they be made and repeated the patient feels no which from the lofs now is the Lysten prepared for other une die. Ben'des which the ciplant hyportours are generally aggravated owing to the weather of the Patient by the loss of blood, without dem wishing and even aggranating the irritability. Contines after repeated bleedings in chronic Cases we with find a hot thin, fel pratse do which widicales the lop of blood, but if taken the patient hints: Such cases must carefully be clistingwished. The quantity tetter must be regulated by the effect it promas: the hest indication is a constron of pain, with a doft and

by spring a vine which any telerment to the finite stant. The los demination of placing is in withermature accounting of those in this system of Tenades from any produced the some and the Evergon is generally puter of me the insume lains expends the that I he defear tops sowning from hid a the low Sometimes the frimals of the coagal un is list and = carried for enough". [Thomson] are generally appropriated owner to the week of your Tie Will are come and compaly to continue the second great the later went its anniated by the of father frame the header in de la lar is a ser promise of promise in a right sond

consprimible pulse the depressed pulse must not here deceive ! The extent to which it should be carried must be regulated, when there is a restoration of the secretions and disposition to syncope & it has been carried far enough. Also by the violence of the inflamed part: thought of the patient & habits - The owledge of the prevaling epidemic, but especially by the nature of the injury, as when it is Whely to continue long or be attended by free happuration we must be cautions not to bleed too much or we wike we hant the patient in such a way that recovery carnet take place, it's to repetition we must de a de by the phenomena presented, as return of pain with the other symptoms call for it again, but he not deceired to pain: be careful it is not a nervous affection as here it would to - no good. Viry Blood also in dicales a repetition falso of there is wift. in a allicate organ as the eye & of but when the blood becomes pale thin and watery it has been carried for mough. I' Vingatures with also be from useful. It by warrating the hardened faces, which cause a very great degree of intation. 2. by restoring the hippiness of the Alemin. Canal, Pancreal Liver &c ( To produce their premiar seinting we must resort to buch pury atives as ach on the visus 1. 32 They operate by lessening Alethore as by them a put of serum is tometimes discharge (A. levper) In this way they prostrute Ho bystem about as much as the lancet, and is often hibstitute I for in in his devate cases of fever. But they with no do when the wife. is violent. It the Pargatives have

creating it with new here carried for everyher the by The wisland of the inflan huma his epictemin, le to especially by the nature of the up Applian ations suc. must be conting wit to this an min on with sinh wind the patient in his a way that were commed tall places, who to repetition on much dealer in the blue sistend freeled, so to land of paid out the willer morphon calle for it spain, but he was hear a be Ver direct at in that a newous affection is him it wind I is wife on a let kind in ing win out the sine the back when the se Garag note this rest water it has been proved the hardens party which cause a very joint disperse

sometimes powerful influence as counter-isribants by Meter mining to the Sales trues, and relieving the Brain & other organs. 3 Nauseating Astroled. Inch as Jack Enal's Specare. with the found very useful. They have a powerful influence on the newons and vascular bysten, by the great By upathy that weits between them and the Howard. They tables Newy much the exatement of the dissues in Hever, and may be carried to far as to produce type cope & even Death. It Deaphoreties hat as the Enter & Jahrie articles, Citrale of Potash, Sovers Ponders &c. in Buall does with be formed very useful. They may be also assisted by delicent driest, . porturia, warm buth, formertaling Se. opium may some times be combined with the internal remedies with great arrantage. They act as direct warmants by promoting perspiration and as revulsants by determining the blood to the hurface. The both thouto be from 92° to 90°. 5th Refrigerants. as white and the daline Reparations in addition to their supposed action of exaling the Secretions they are faid to operate directly in Unwishing the increased action, and are only resorted to in Fevered. 6th Cold also to a certain degree may modify the symptoms. Inch as and air, will drink & few hed clother. But it is Ittle don't ful how far offusions, un mersion, Isc can be Cavied or when they can be used with dately. I think that in there Hever termed Idiopathic, and in Affections of the Brain great benefit with result from their use (Currie)

come it distilled about alow they all it direct was and ley presiding heapireters and in hearlight by determining the other the Surface . The South throwing to from 120 to 100. are train to operate directly in the raislang. The stronger The French school however have lately introduced there in the The of all the viscere rought the cheet, where they are presidicial.

The Naveoties, in the view of diminishing pain and newon, waternest. the best of which is Opium. It has a Levalive influence on the newes while it wouldes the heart and arteries. Jour confleren it in Fevers while others recommend it in place of the Lancet. But as general who it must be used white there is active bottom: But if there is severepain and the newous symptoms and irritability presominate it is very good. On the contrary it there is vasuel action or existement. V. S. is to be used as a preventure. It By Ormanishing irritation & finally wiflam: as on it all weat wiftaw: apends as well as Tup. Flevers. It is also useful When we hatited after operations and injuries. Much advantage is oblamed from its combination with Neutral tall, the Autimorials and other Emelie Substances, By there me and we facilitate the return and increase the gerantif of the Secretions by which the bad effects arising from itsstemulating action are counteracted.

8th Sometimes the Taff. Fever continues with great violence and cannot be supporessed. In this case the Physician after having ever hausted all the seminie, mentioned has only one resource which is ellercury. This is a universe throughout to all the secreting surfaces, as well as the absorbents and by this universal effect which is produced

enthrough on the very while it is the What there is relieve to flow that it the existenced. I. it is to be with up a prevention the By homemore initation to foundly inthans in in it ill about age is at law a from its conditionaline in the sail delles the thaties on a to and other bushe who land the has beened for facilitate the letters our increase in comme the decretains dry which the sail offers arresting from In stone The letter Frence Continue council to represent in the some the steer as orly true women ask it is a chorden in

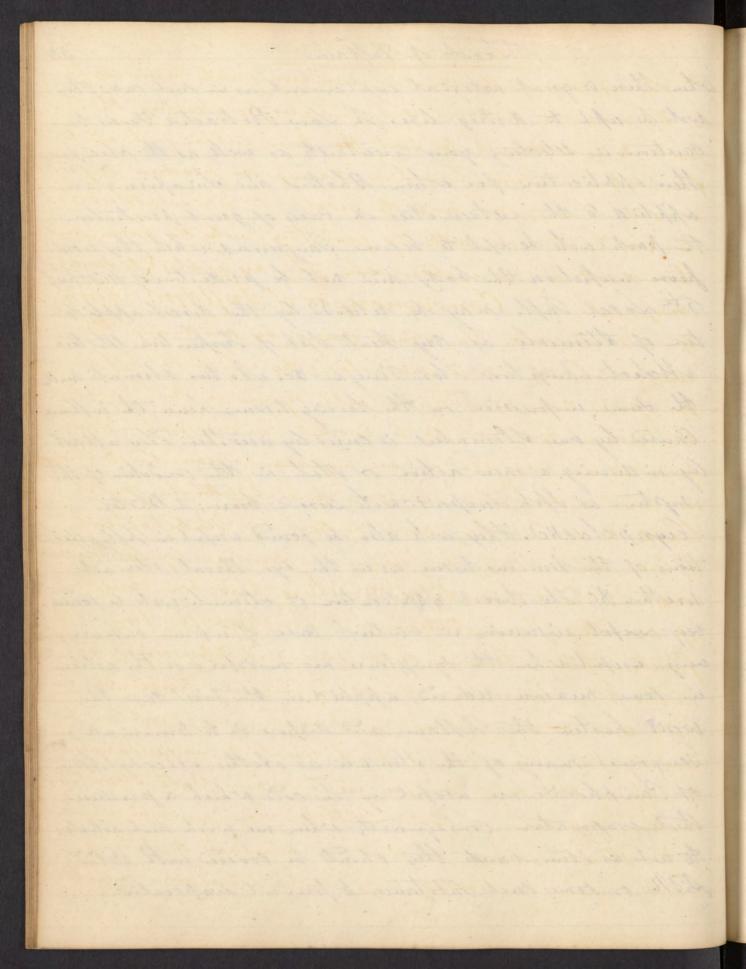
A causes an equilibrium of the vascul: and nervous continent. It determines the blood to the parts that have too lettle and relieves those that have too much. It must be given in mull dolls. The Diet. The all there means be employed they with prove of little advantage, without a strict attention to det. The violent cases the patient thouts only be allowed musi laguious drinks, with and Slightly acidutated. but in more mo derate cases make quantities of farinaceous articles way be given with advantage. Low diet has the effect of be pering the irritability; but if he be kept too long without for the irritability of the Stomach and system generally with be much auguented, and life with difficulty main tained (the it is sometimes necessary to five some food to Rufs up the time of the store ach particularly if he is of a nervous temperaments Temales commonly require a mon stimulating deet than male. By such meany then we remove the Sympathetic and Suffam? Fevers out the local Sugar When Levere with continue after the Thotam. Flow is hib dered and must be lessened by Topical Remedies, with which we must con mence before the Taplan. Hever has entirely disappeared. The most efficacions is Local Bleeding. which may be performed by Caps, Leiches, or Jeantitations The moders operandi of this form of Bluding is bindar I that of General V.d. here the same effect which t. S produces on the whole system is produced by Local Bleeding from the part itself. When blood is taken

sings beginning drinkly in I and they the six detailed. hing it for an with administration on head has the offer for the writeble of the Soine and hater former the ill is the time according to five toon for to leafer up Markarian and and reference has a for the some has The modity the principle to the form to the confine directly from an in flamed part, its effects are more evident as the tragescence is when it by evacuating the verses them gelves, and when it is taken from the neighboring part it does good by evacuating the supplying wersely plor by revolvion and counter-irritation. Leaches are Superior When blood is to be drawn from an inflamed durface and in all delicate parts. Cups are very jood in deep seited Taplane. Ocarification is but deldow resorted to, and the me may sometimes do good by dividing a large vein partrailarly on the Derotum or Eye, yet it is not often productive of much advantage. 2. He local application of Cola has a direct influence in driverishing irritability Densibility, Sangaine irritation and augmented temperature. hence it must hot be too great or too long continued, or we with destroy all power, the part must be kept nearly at the tratural otan dard Burns ! Pormeded The, alcohol Water, e dether se are used for the purpose. It generally affords inmediate relief, and if there is any Manger of melas tasis as in the up an themata, bout, Rheumater in se it must not be used, nor in parts where hoppuration is required. Ledature articles duch us, Lugarof Lead, dal. Am moniac, Cicula. It The symptoms are sometimes modified by Heat also faitecularly when combined with moisture This Leaves a Paradox in uning both Heat and Cold But when warm formentations or Pouttices are applied & an infl. this

week of between There of the form in the wife of facts of and are more souther the peters; and when it is taken from the neighboring part it that food by course they will hefflying work win by remplier and love to instation, decoles are disperior of her blood in to be decens from our in plane a desifere min all delicate power buft in very poor is deep sider or how may draw times do ford by dear dail a join him for trackedy in the Deschin or type yet it is not offer has the stone of much side antage, It I loved application by with hey a Mayer bufference in deinemiching was while penjibility the jains prostature and regulated laster about have it must not be too peak or too long continued or be with thereof all power the part ment to take news whe the historical Was March formers of The March to apports in nestrate relief and if then is any stamps of nester lass of in the residently, South Wheen the inter the many hat he down now on parts where heppermine is experienced Be loth is generally winted by the astronymouses bearing while said it to for for her he dismon field It the your love use sometimes moreful by Head allow particularly esten was brief outh maisline This hours abandof in unif both Heat and lott had enter some former to time or the street are a shill it is consider I had

The secretions are in creased: perspire is facilitated, Suppuration promoted Be hence they are required when supported is deman de , and by theterming to the part causes its reappearance When hoppressed, particularly in the mucous tissues as in the Yours hea. The increased action the part which is laured by Their application is countert alance by the secretions produced Hot applications where the pain by toftening the cuticle and when applied to deep realed parts act on the principle of Revulsion and Counter Truitation, by increasing the determination to the back at which it is applied and promoting resolution. 5th Local Inflam: may be lessened by Him Mating Frictions. Rubefacients, Phisters, Setons and Ames which operate on the principle that two he Haus. exist with defficults at the dame time" her we they are very voluable particularly in deep seated Inflaw. They are also applied & the feet, when the head is affected, and to buch parts as ach by sympathy, as we prequetty apply then & the Breath in Theft of the Uteres, and to the fame point after barturition, to promote the Lecretion of milk; behind the ears in ophthalmia. Rubefacients are preferable when they are required to act inne diately. Bli, la, thrown boured in Local acute Inflams. They afterate slower and produce a Secretion of serum, the the general effect is the Lame. Johns and Somes are more lasting and Reep up their hupunion for a long time, and are used in Chronic cate, As a general sule, we thous never engloy a counter-irribunt

the dear land are microcard: perspect is for in thatia buffer ation promoted to hear they are uganed when hopened in is drawn Dy and by delicaning to the purch care its week presence I have before the parter looks in the concern to me no in the Government, in increased actions the part which is lance Their sopplies for to love tested and to day the Harding perhade That replifications it lein "The fair by beforing the interla by Meralien air courter baritaling les invarances this tetierasistin to the part at which it is applied in the promoting in olition. The local deplace hours & lovines by Himselvery Privation, Winterfrancis, Mister, Money and Tomas which i provide on the training to "that low to How in easit with night willy a letter dance town he is the Buch parts as ach he mintallines we premiety which the they are dequeed to ack which I had the to be come in harfreener for the done time and less that the the a someral die la two though rever another a comwhen there is great arterial excitement, as in buch cases they with the eight to distroy like. In Low Protracted Fever be Cantions in selecting your wintants as well as the place for their application, for when Blisters and Sinapisms are applied to the cutremities in cases of great prostration the parts with he apt to become Sangunas, while they would prove aseful on the body and not be productive of mischief. 6th Local Infl. may be relieved by the direct applica tion of Atimelle as My heat, April of Surpentine, Misters Moderal, Camp hor, Hot Vingan be. No two stimuli make the dame infression on the living tistue; hence the inflan. Caused by one of ternales is coned by another. They allast by inducing a new action or State in the condition of the system as ofthe durpent with cure a burn; a Mister, Engripelas &C. They will also be found useful in Tall affections of the honcours testere, as in the eye, throat, stomach, wether &c. The direct application of stimuli with be found very asseful injuriors in violent cases of inflam. but are very aseful when the tymp trues are modified or the action in some measure reduced, applied in the first case they would hasten the hollan. and dishore it to terminate in Jangrene. many of the Stimuli as Ather, Aleohol, Apt of Camphor de are useful by the cots which is produced their evaporation consequently when we wish such actiles to ach as thinulands they thout be covered with Oiled with or tome tuch fats lances to frevent evaporation.



Consequences of huflam. The efficacy of the remoties mentioned with he increased by Reeping the part at rest. and also by elevating the part to as to present the blood the from entering it and to fachtate its return, hywhich means we produce as good an effect as if we were to resort to Third Bleeding. If Troitants with not do good they were do harm, and this must be unembered to he they are applied to musor, day they are applied to musor, of Delitescence, In some cases by producing this lemination we cause metastasis, by which the heft is han ferred to a more importants organ, in such lases the frist in Mication is to exalt the original affam. provided it was not in an important organ, and it was we must indene auto one from which lett danger is liable to lusue, this may be stone by Rubefacients. Blisters, Flot Water Go. When it is puddies by suppressed decretion, as where detons & Wees have been dried up are Hot Formentations and Poultices. When from a frotations opening be coming dry or from a suppression of the discharge in Forortica for during Herria Humoralis we should resort to stimulating injections. In carried emptions se receiving from the other we must resoft to means calculated to act on the whole hurface as the warm Bath. Himulating friction, dry head as a Land bath &c. When we have sparses of the stomach, Lungs, produced by metadasis achleting Unidies much be usoted to. When it arises from vascular

had to as to present the Hard the form intering it and to faithful its return, by which means If Theretast with wat the good this water to his This must be conserved when they are explain to m Just and ... Consequences of Suflam; It Solitoreise to low cases by producy har fired to a more enforted out of organi, in his the fresh on the continue or to colder the migrical me pourt interes was from which lett day in a laite to locar this many he have he white the could seculting is when detent to believe have now deer derived printers opining he cairing they or form a supply wish of I water on they dead are wind but the St. Then Homevier minister described to their it wines from irritation are N. J. and when from nervous irrib: nareoties. 2ª Man Tullam. Vermin des by the African of serum in any of the lavities or testures It is productive of much mischief. The treatment in such cases after wift: has disappeared must consist of such remedies as with produce absorption: of internal by wild, fultions elevated position be and well regulated pressure, but when internal, medical means must be resorted to as V. J. Catharties, Diaphoreties, Merany He When there fail the Purgeon must evaluate the fluid by puncturing. Sometimes he is called to present its recurnence. This is effected by prollucing a more active inflam: in the part affected, which causes effersion, of lymphor pur and the forms at history, as in the Tunica Vaguialis Festis, by rigecting wire treater or interposing a donit of link. 3- Adherine Inflam: this is sometimes productive of dis advantage, from the two fre deposition of lyuph, as may be seen in Strictures, callons edges of Wars, Fistula Facily of Cornea, Schirrons Hours. and hence the leading indication is to promote absorption, but hereit is more arthiuth than in cases of Lerum, as it very soon become organisa, yet its removal is very desirable for it may lay the foundation for Cancer, &c. The means mentioned under the head of Jenne with be found useful, they courish of evacuating or we hansting remedies. Experience proves that absorption goes on more rapidly in emaciated fourous, and in those whose system is welling, than

institution were tit on the form residence and infareties. The French say, they have more and, by abotimina, in removing inaprient Cancers most de secretar to as that the title the things by providinging, or or chips to a cuted to present therein free with the form withours, as in the hours on topically ming to dear in thinkers, within sopping where Fiche together have the desirence in very distance to for it may bey the founds the land of the minders mentioned Evenish of smaces our in him they deem during

in 24 his for 30 or 60 days to jether familied by laps on Luches with great advantage.

The seme dies mentioned are assisted by local deptetion and elevated position. When External, cold applications. Stomme leting himaments and plasters, continued application of Blisters &c. In the application of such remedies be careful Two to increase vascular action, or we that do mishing. As a tast usome we must give ellercury. First as a Catharter and afterwars in small doses until an in pression is made on the system. By such means fre quently we are enabled to discuss large Ochivrons Hands and endurated organs de. The is dangerous and requires discrimination as to the length to which the fratice can be carried, as it may be followed by haden relapses and Death, and in some cases the Brain o Stomach become affected, by which a Let of Newons Symptoms are froduced which illy compensate the patient for the cure Other remedies have been recommended as liceta, but its officery is much doubted, but who present it is little used. To dive is much recommended in buch lakes in deserver much orevit. Happily, however, all there uned

Eough friction in Steffnis of Joints sometimes latte after and wellengers in small stories in the film has down to hard a ly low prove to the haste for the own With a sale of some in some he was me have his intime in Reserves more colorie lafterly however all there in

Coursey: of hollaw: are not usually required as callons eages of Meis, thritunes stiff Touts, opacity of lornea, &c may often he cure by the Judicion, are of premure, position, motion and the Knife, and they thould not be resorted to while there is Tiff. remaining. Electricity has also been highly spoken of. 4th The neich stage is the supprivative. When it is seen that Frit: lamos be sal died, the means should at once be about one, and applications calculated to promote sappuration butstitutell. For this purpose the degree of Taft. must be regulated when too Great, Septete: when tand use Fruis and a generous dich. In all external affections are must apply, Pouttices, Foundation de, as nothing is reperior to Head combried with moisture. They are Serviceable by softening the cutide, promoting perspiration. lesering the premier, by which the part hosts and thetermines to the surface. The degree of heat must be uge lated by the putients' hereations, but they should be warm and Rept moist hence the utility of covering then with

prevent their becoming dry, they should be of proper the they or prequently changed. Medicated Pouthers, and formatching were formerly much used bent at present abandoned, however pain may sometime, he lessents by sprin Rhing pour dired

Electricity is devil by experiently to facilitale the formation of frus: it may be useful in deep deater hell. where

this could character of comes be may ofthe to our I have and then then and he described to while there is hiff. he efoca and , and applications out a later of from the top must be desirated the too freed attitude who truly we hopering to Fleak one board with minteres. Her to the Surpasses The dispus of head must be egeand Rept maint have the others of more fitter with 6

Portices de won't have but hothe affect. By then means we promote supportation, and form abscesses which gradually approach the hufer. Its progress may be facilitated by the application of Structants, as Dry Cups, Firstatung Ginus wasted orions, and especially fuguent Blister, &. They ach by in oxeasing the action of the absorbants. - The is often desirable to discups there puralent collections. This may be accomplished by a rigid asherence to the means for promoting absorption as Mercing, the autiphtogethe heatment is particularly required, also mercurial Plaster by but a method of aure we avoid Wherature and the formation of licatrices. But when it is not discussed and arrives near the surface the question is whether it must be opined or left to nature. its a general will if it is thated in an unimportant part, very tuperficial But he indurated and production of no uneasings, it should be left to nature. For by opening it we with produce tome found and irritation as well as pain. Callon elges are also hable to form expecially it opened too doon or according to the Common phrase before it is refre. To this rule however there are to many exceptions, that the dayson is amost always in favor of opening. At the opening is required when it is the ated under Fareix, sheather of Tendous, dense hand cuticle, Perior learn &c. as the pressure caused by then nembro: with cause the abscess the increase in dois and much aggravate the symptoms. When under the Perior teum

consog: at Lithur . To discult this min · is part a look securios who have mind wintertier as well in pay, letter

ar opening must speedily be made by which the matter can be evacuated or it with produce violent inflam: and death of the bone, but it has been disputed whether death of the bone is the cause or consequence of suppuration. 2- in early opening is required when an absens is deep texted, as in making Their way to the hurface they wile destroy the parts thro' which they paps by progressive absorption and for the most part are tections and parinful. 30 When situated in loose all: and allipore tissue, as in the apella around the rection, they are afth to attain an enormous time, and when an opening in formed by nature, it is aft to become firthlows oroning to the matter not being entirely removed. It of them abrumes inowe a large centery, it is necessary to make an early encision, for it may wherate the artery and the patient bleed to death. But in consequence of the arteries' being to highly organised, There is lettle danger of in taking on the Wearative or Jangrenous Hage. Boyer days that instead of the artery bearing therenes by ex pour it be comes thicker by a deposition of coastymph. I am leoper days that it is never rivolved under the Whole system is in a violent about of irritation or the Miera tron which he terms Phay a dervi. But as the precise Character and nature of the Maruter cannot always he determine orth with he always prindent to open it. I'm opening is required when it is the atea directly over a circumented cavity as the Thorap Abdonuer Fonts be

in straining must should be made the which the made on A had as teting and somether 3th When withouted a love all: in attion torns is a the arche senter to tolung this are afth to after in morning him and who are where to the nexter with home attract the war I the When wherein heavy to highly come and there is lett to there and I mi looker day that is in more more than south the whole propers is in a visited about it is instated on the Muni

for fear they should open internally. But the danger here has also been much oversated 1th as it generally has a tendency to the surface, besides which 20 the derons member is much thuckered. Somethines however when the system is seen irritable it is not sufficient.

6th The prevent deformity particularly on the face & neck of females; they thouth be opened as som as a blush appears and before inflam: affects the Min, by this means we present the formation of cicatuces. For if the Thin is affected it four becomes this and assumes a thish appearance. In hah a state it with not made to the under parts, in consequence of its loving a greater part of its vitality. We should also be careful to make a smale marion, and exacuate the whole of the cortexts of the abscess. For this purpose Fir it looper directs the we of a very narrow Built, & gives very particular distruction igs to the direction of the maisions. When in the neck they should be obligue: in the eyelids transverse, but no matter in what part of is Istrated the enciseins thouse corres from with Atu creases or fow of the skin, by which means the sear with be enterely hidden, we thout a bo Reep down the Tuft of the encision by coto or Sulph Jini. It An early opening is required when the activity of the Infl. has cease, and the progressive absorption is tedious with little disposition to point. In such cases the Skin becomes thin, the celled: mendor: is abrother, and the parts

duli in contraction of the training that he day the that he come is the and the presence. hewme how'd, and as much disposed to alcerate in consequence of their vitality being to much diminished . A timely opening here would save much thin, and promoto a min; but when left a troublesome and in dotent liles with pollow. 8th Treat pain is often sufficient to seman on early ofreming as when it is tituated in the Globe of the eye; The Tynpamm: under Nasca; in the bois of the Test de: in Bone &c. 9th It should also be resorted to when it inpedes the function of a part as in the loth: Cavernota preventing a flow of Urine, in Frachen preventing respiration, or the Osophagus preventing deglatetion; or in asteries or tousits; or in the Cramin of inputing the functions of the Brain. 10th They should be early evacuated when much dympa thetic disturtance is anduced as hausea, vonting, headath Hever Eptlepay de. In some cases male absences with Reep up the fever for a long time, and even cause death unless removed. When in consequence of any of the above exceptions the sugeon is determined to The the about it has been recommended to choose the most depending position. But this is not always proper, as it may fromt at tome other part; in tuch cases we show always open where the thin appears thursel wistead of cutting Thro' hand and induvated parts, as must be the case if we follow the above advice, and me should also much augment the Tuflam. If the fine thout not find a ready outlet we

The Thompson on dut et area; in the halis barreting a the application of the applications destations or in noticein or toriginary the heling the fourtons of Buch vin

must change the position of the part, or by the findicions en ployment of pressure at each dresting we hay be enabled to effect it boutines it points a de cond time, At in Such cases we mist make a be con a and ever third opening if recent this is termed counter opening. When an abscess is deeply resto or under a Fascia, it is not to be expected to point. When this occurs we must be goi ded by the fluctuations and should Shown the most debending part from which to evacuate the Pas. To effect this some surgeous use the Knife, & others the Caustic ( Physick and looper hufer the veget: caustic). It should be applied to the part at which the Min is thimself When opened the orfice thout mit be allowed to close, but thouse be Rephopen by warm tolk Porthes, and stimulating this ments, or by a donet of link, a probe, or tent, or some other foreign buts lance, as the lifts have a great tendency to unite. After the matter is evacuated should a deavour to promote adhesion of the bides of the cavity. To accomplush this a certain degree of premue is necessary, but be careful that it is not too great or we with produce. Wheration and Houghing. It should always be greatest at the Circumperence and never over the orifice, as it with prevent the discharge of the natter and cause the diserse to return. When by Contraction, No herein, Grann tation & licator Intion the absens becomes of literated, nothing is left but a superficial Weer at the orifice, which by proper heatment toon head up. It maybe facilitated

" Alberto. h high open by worm life butter on a store election

by adher: straps, confirences and buildages. When from any cause there is not a free outlet for the pus it causes a Fisheda. 1this may be formed by too trall an opening or from a propose secretion of coag: lyuph, moducing callons edges. When this is the case of has been recommende to lay open the whole cruits with a sharp tistoing and present its reunion by the interposition of link, until it heads by gramlations from the bottom. But the objection to this is that a large mass of flesh is divided as well as bloodversels and news, here it has been lecommended to pass a Leton this the whole track of the Canal. Thisisterid to pro duce a sufficient degree of inft: to unite the parts. This thouts always be in aprehicial absenses but never in deep sented, on ace! of which objections a 82 mode has been proposed which with generall be found to answer. It cousists in dilating the external opening by Was Bongies, Sponge Tents &. They should often be remove day every 200 3 hours, that the pur may be evacuated. The tire of the sub lances use much constants be increased, and as the granulations form at The bottom of the Cavity, they must be shortened, Dr. Physich has used this plan with mecess. From Clastic and Slow Carrelas have also been used for this purpose but they are not to good . 2? Festula, is sometimes the result of debility, the part not being able to granulate. This is owing to the Min hering so very thin that searcely

The timber round there is not a free Firster It This may the former day the saidline of called steer. Then this is the week it has

any blood is sent to it hence the use of Strondants, Constis, which are preferable to the Ruite. After an opening has been made a postlice shorts be applied to promote infapuration and granulation, and to facilitate the contraction of the Mur we should use properly regulated pressure especially in deep scate a Fistule. Care must be taken that the Meration is not two great and that refiguration is assisted and not relateded. 30 Fir tuta may wire from the presence of foreign buties as mus Ret balls, pieces of cloth; bone de, and ment always be removed by a hugical operation before they with head. Inch therefore are the local remeders for hoppuration but we frequently have to result to general means to duffort our patient, or he would with from the profuse suppuration. Here a suple and nourishing dich with Formis must be resorted to the first it must consist of mild articles, but afternãos follower by the Stronger as Outpentana, Barkte Laratures must occasionally be resorted to, to prevent the accumulation of forces in the bowels. Opinion also to problem Heep with he found useful.

I shall now speak of the of and last stage or Ganguerous and Aphacelous. When our remedies fail to produce any of the preceding termini ations, and the Taple continuing with great violence the parts soon become exchanglet by which Gangreene and Sphacelus ind produced. It may also arise (as previously mentioned) by the wiff, or curring the slights in a weak park. To prevent this emportante issue

my there is such to it have the use of alternation to land which we preferable to the Party water a probled that he applied to prove to before the and granulation and to paintate it waster climes we that was properly regulated properly who will a deep oration Fight Law Comment to Interview to be our peterst, or to send to the four othe propose making There is maple and resiminating dies with Vininguist institute to with friend it most sound of south article but atlemant tollow to the bloto is as depention Butter the present of the series of the literationing with Experience and Inhander at his notice to mind the se

we must en dear our to mo derate the action and regulate it in proportion to the degree of strongth the part properties. hence when the general and local symptoms are violent the shought of the part and restern being good one must resort boldly to the lanch, as well as to the atthe Phlogistic me ans generally: to as to diminish action at once, and repent it as long as Teff. is present. The must also resort to the use of local evacuations by Seeches, washined with Wild. In resorting to tuch servedies we must be cartines not to carry them too far, and at the same time watch vigilants for the first symptoms of prostration, which generally appear suddenly, and as soon as they appear we shouth distortime their use, is by conful discrimina lin they may be thetected. This sometime, first manifested by the appearance of Gordes about the teeth and tougue, or by a slight Melinian, wild eye Ve. If a violent Local Tritation be produced in an ola constitution or one promises debilitated by previous evacuation or Lever, we must give shought to the system by a nour is hing trick, Tomis, and Stimulants, while at the Same time we resort to cold applications, local bleeding De from the part for the prospose of reducing Loca ( Inflam: On the contrary when the general system is system is thong, and the affected part debitetated by Contarions, lold , Voisons &c, we must endeavour by the application of olim about to give tone & strength

her down to be there on 6 wheele it is long in Tell is friging. The most who want Mark distintion this was to be conded also tre Strangerally Robert Later by home en este able time to other hand to our to

to the part to that it may be able to withstand the weal writation, while the prusue the autophlyistic course with the jewral system; this form is generally produced by Poissons. When the patent is naturally weak or the part he endeavour to present Janque. but sometimes all our reneetis fail, and Sangrene is prothered, and it not soon arristed Sphacelus with lusue. When this is about to occur the symptoms of local and general would ment disappear and great dependion arises. In hash cases we must increase the strength of the gen: dysten as well as the retire of the back itself. It As regards the System Itself, it must be accomplished by Drit. Jonies and Simulants. The dich thout be much as to thoughten the dystern and must consist of articles easy of digestion, and at the Lame time contaming a great dout of nourishment, as the animal & reget: fellies, beef and author leas, eggs, oysters &c. and occasionally total food of required, all in made quantities, and often repeated to as such to oppress the stomach. The effect which of produces must be subject, for it to produces Hever My furred toughe to It is doing harm, and must be chan get It given in smaller quantities, or animal food at least laid by, our object being to allay and not produce writation. If the powers of the Stomach are weak Oliges how may be assisted by the dotation of Condinients

Such of forested W the personed deplement this former in the wealty produce debil tated by cola with the Com to Ano. In this en the anoma to proportions down to occur the for plan of local and necessal and disciplane and fright depleasing myor, in he me mind viveres that I have the of the contly In no the action or the bank itself the ye is and Midwind with the Rich divide in his confer to as onche to oppress the stone with the all

which cause an increase of the gastric price, as Popper. made to becasionally much advantage with he derived from structuting drinks as Wine - Porter &c which act also as Jonies. Jonies also have been recommended and much establed fornesty, but in lousequence of their infroper allministration have grown into disrepute, but when properly given they are very esseful. He must be careful not to empair the Homash Perior: Ball was formerly und and was hippored by love to be a spenfic (but there is no specific for Sayment). White others our denn its use as being wiert. Cuchona is cereful when properly adapted to the state of the system The text of its preparations are the aromat. Infurious, Salt of Barle, Quenine, the last is the best they with generally be found grateful to the Homach but must not be given to as to prolled nausea. When all these fail and the system continues to him we must resort to the diffusible Himuli. I ler White of Marchester Eng, recommends Muste and Vol: Allali which are very notal. Opium with he found of great importance as it reheres the newons synphons, and enables the constitution to bear up against the bedative influence of the Mortifi-Cotton. Thompson recommends I gr every o or 8 hrs, but it with have a better effect to give it at shorter when als as 1/4 pr every hour of 1/2 gr every 2hrs. In as & Reep the Tystem con pletely under its influence. Should it produce Fever allirimo, Los of appetite we must

in The second of the proposed from the the strong of pertilited by found grateful to the Horach bet in In we to proless dance. When it with the with the

comply it esternally as before recommended. Wine, Brandy, Apts of Turpet: with he found very seseful. Buch are the remedies generally advantageous not by any specific in fluence, but by affording a apport and enabling the patient to diget his food. The 2? The cation in the treatment of Jangrene was to increase the shought and love of the part affected As our preception have left us no rule by This we are to be goi ded, the local heatment is entirely empirical and the different articles recommended are used in every Hage . The treatment here is divilled into 2 stages 1th White Sangrene is progressing. 2 after It has been arrested by art or hature. This tail much du ays be done by the adher: wifl. in the durr our ding Sound parts, forming what is catte the line of separation should this not be brought on the Gargeen with toutime I Spread. Met While progressions our object as to happort the strength of the surrounding parts. To accomplish which we must resort to the threeh Homen what of which there is not much chince. These mostly recommended are the various Mouholic Preparations, Apt, of Jupert: atis its Kin ared attacles, Junch. Boull, Sht Comphor, sed roide of Mercuy, Babans, Eneutral Och, The Vinigar, &c Hurus days that Surpent: and fpt. laugher and the best. looper recommends diluted Athons acid in the proportion of 50 gth to a pint of water, and a portion made of Beer Ground, also Nort Wine. On the Jame principle D' Physick

where it water also as before to contracte With it Turk in the with he found very sweeted. Buch so the Huserie fut by afforthing to poplant and trathing to diget his fast the I have cation in the protour was to increase the thought and have to had affected who the prointeding home tion ? party forming which is take the laid of letterstin shirt thing and be now yeld on the Granterie will that that attaly such But, the land for the Then Grow is also feel this be the face priviled to

recommends covering of the whole Sangrenous huface and a porter of the honour dring parts with a Blister. 20 Men by there we are we have arrested the Garyren, the separahow of the dead from the living parts begins to letterplace: which is known by the appearance of a red line. It is here the dely of the Vurgeon to facilitate the deparation by the common principle, printed out when speakingof repperation that the view he thouts apply warme toff posttices over the margin of the dead man, as bread and mill or hiseed are preferable, the we generally bridan inmerse mucher mentioned in Sugical walls as Turnites Carrots, licuta, Least, Beer Francs, Charcout, all of which with be found aseful in particular Hages. Structating reme dies are here very improper. It is important to Reep up the supportative and alcerature inflam: in the found part and Correct the factor from the dead. To accomplish this 1st the postices should be as hot as the patient can well bear them. Beer Fround, Port Wine, and Least are here very good. His here particularly that dir A. Cooper recommends the Other Oht: acid. Stimulating orietments are also useful as Basilien Miged with Supert: 20 to loved the Foelor, Chair coal and Year porties are much estitled. Physica also allower the use of Ait. acid, in the pro Jostin of 1ph to 8 pt of water. To be applied only on the dead parts, and be careful not to let of louch, in bound part or it will destroy it. The Pyroligneous acid above

has there was now him have seened the hand some the file with to bound apply it hather day the attendation

all will be found most writel, rays wet with it must be placed over the clear parts. This dai'd also to be a guitte Himmitant when applied, stightly abouted to the leving parts. Tangrecons als cerses frequently form in cell: ment. while the Min is down and is frequently accompanied by a peculiar crepitation or premue, this is owing to air being affects in the cells of that time. In het cases the hugeon mutt make me incisions in the Min for the purpose of evacuating the matter and Horyles: for if they are not brow the absects with some rapidly spread by the Languewous haft. This form is a prequent attentant on Engripelas, Contusions &c. effer they have been freely pened, All that is necessary is to pursue the course laid down under the head of abscenes. When the sphaeshes is hoperficial, only affecting the Min and continuing to Horeas the Hory his thout he ent away, care being taken not to injure the sound parts. We thout also comed the Falor. Sometimes the whole surface of a link become, windows, here we must determine whether the patients' constitution be Afficiently thought bear the irritation which is the consequence of sloughing or whether we must amfutate. As ageneral rule amputation should never be resorted to when the Lysten is in a prostrate condition, as the patient would probably and an der the operation and of not mortification is atmost sure to attach the stimp. Hence it must never be performed when it depends on any internal cause, nor must we amputate while most freation is progressing, unless

all water to promise most a sight was not until at senit to place deficiently they to her the present the day the sound

Treat. of Mortification. Jay Thoupson and Cooper, the symptom are very argent, for until asher inthe has bound the part, it is not defe, and even Hen it is not too toon, and we should always wait trutil the ascertain to a certainty whether the Lysten can bear it or not. The state of the Stomach also thouts be atten ded to. To this rule Boyer, Ethyrich, and others day there is no exception, while on the other hand military Surgeons assert that in Franmatic Sangren for that species arising from Fun that Wounds, owing to its progressing to reprietly, ampulation thouto be performed immediately, as soon as the dysten reach, and everwhile Sangrene is propersing, as it is the only me ans of daving the patient. For in theh cases it with often prove fatat in Thouse. The same thing occurs when it has been caused by a ligature applied to the main arten of a buil or a vein, or when the built be come! Janguenors from any other cause, as the patient with hall before it can possibly be arrested: even in thou cases where Nature herself is fully competent to deperate the himb willout the aid of art, it is me ferable to amputate, at the process is tections painful, Is productive of a great deal of constitutional irritation and which is accompanied by much deformity in love year When mortification is in duced key previous inflam: the heat went should be governed by the cause. It is sometimes pro-

you were town and other cause, as Fre hat is no em lance by in it he he have it

Auced by pressure, from tight bandages, exhibits or long contin nence in one position, as in persons who have been confined to beid for a long time. In such cases the bandages de much be removed and the part clevated in buch a way by hillows and pass, se, as to relieve pressure on the part affectett, and the circulation restored by frictions. When from internal causes as from Eight, diseased arteries, Veins &c the Juyen Can do very tittle, but by attending to the state of the syrem it may rometimes be arrested. If it should extend beyond situation original it must be treater as progressing Tangrene, of any other bat by Hamulants: In eases where an eschar is produced by veget: caustics for the purpose of stablishing an issue, it may be necessary to course the Hough to be tetached. This may easily be some by applying a postice; but sometimes a her it is small it may be of all autage to present the hippurative hiftam. for this purpose we may resort to cold and astrujents as Aqua Ammon: cather; colds and other evaporating lotions to present it and allow the part to hear gradually as directo when treating of Ocabbing. No particular deference of heatment is required between Herwid and Dry Gaupsene except that in Hermid we should apply antirepted which write be improper in Dry. Sometimes the Olingen thouse not won't for suppuration. Freat attention must be haid to the general health, as an Astheric thate of the system is generally prevalent in all extensive and

Marie buy pressure; from teefthe has the prospection or long to tree wence in our positions of in parties who have the confin to beed for a doing tener in truck cases the courts for the be removed and the part where her in but a roughly fillers some products, to to taking presture on the post affected, and the windration regtons by frictions of the from where at causes to from Expert, with interior deticated the theren One do very Withles land by inthenting to the stat of the s il may sometimes be arrested. If it there I want hayer wheating or equial the most he heater so progressing. Languages of every orther front by steer wheater to care when on exchan is produced by regit; carrier for the perfer of restablishing an inner it may be necessary to come the Horyte to be thetrached. Their may see they be there has exployed a parollered take boundaries to less the is somethe it. way be of all and ay to present the Explanation Taplan. for this prosper we may wird to to to the will definite them a channes : a better, to to and other exchange betiens to prevential and allow the part to head gas but they are trived when treating of Contrains who particular differences the triplication is required between Themes of and my language everythe that is Turned on theon offely activities a hill levant be en propos in ally draw atimes the blanger this I won't for hepperstier, you I altertier aunt be had to the general health, as an obt them that

recommends opinion, and It is useful in relieving pain &c. in Transmeter Gangrene, we thout deplete but with great continu.

Chronic Inflammation

It that stage in which the symptom progress storely and as it name imports is nothing more than reate wif. continued for a long time, with a mis devature of the symptom, It may take on the chronic form at first, and is produced by the same wir cours lances as the acute; or it may result from the acute form.

triving to ach, as the course chronic Pt from the cause contriving to ach, as the constant application of a Hister
or by the presence of foreign books. 2° from the breakment
of the acute form but partially securpiles not entirely
or from improper breatment. This may be considered as
the most common cause of chronic Topl. 320 H some
times becomes Chronic from mere general Albitis. This is
often seen in Toplic and officers occarring in patients
who till total by Topphen Fever Flectie; chight sweats from
great lop of blood, broken constitution ye. which cannot
be and unless the love of the system or formal health
is in some degree restored. As meeting it is original.
The causes are attended to the degree of Toplam. with he
produced. The same is the case when the others of original.

spreading Gargeons. The thing the mint to apportunit to Charge distances terms a 2 m to man report in mothing min thing for a dord tener with a middle ature of Sente hat may be one above I from the on a but the presence of prairie berlin. It for the his from milledge drawfyrende when had he to the territoria met to con more course of it houses with the produced of a server in the case when the chileret in

is rehainted a very slight degue of heat or too with in there Tuffan: which wile be chronic. It also occurs when Tuffan. attacks a part vitally weal, as Bones, Lendons, Ligaments for the' they are mechanically strong they do wet prosess much vitalit; as we frequently have Tuffan. of the transim from Hight blow, on the head or caries of the This from Causes equally slight. When Chronic Juff. is probles from internal Causes they are termed spontaneous and sometimes occult or hidden. It prequently results from Chronic der augen ent of the viscera and system generally. Often however the patient complains for some time withour any perceptible cause or sign of disease, and without his being able to assign any reason and when they appear they are goverally designated by the term Serefulous absectes or wiflam: and may occur in my part but more particularly in the scalp, hide of hell pettoral nurcle, avela, poous murche, buttoches and the fler. The symptoms are suit lar to those of a cute Inflam: but much milder. He that know more from the his tony of the case. The Levelling even when superficial is very stight, without heat or pain, and the reducts except on the eye or this is not very evident. When cante infe. is transferred ait Chronic the swelling heat, pain He are gradually dimenished It also loses it arteral color and assumes more of a venous hue; but when it arises shout ancousty it not

any perceptible course or sign of distribution and an along abstalled in willow to the human strong I him to more particularly his the really to the die personal sucrele acrelia, person much little les a the case, The develois

unbrequently continues for a peak length of hime before it is percerio i. Often the symptoms are to mild that abourse, which autain quarts of matter and chances have been formed before the patient was aware of it. Sometimes however it is preceded by a dull pain and measures with an interruption of the function of the part: as stiffnets of the foirt mability of the muscles to toutrad se. But when it occurs as an original disay the twelling may be court dered as ancong the first symptoms obered, being large, circumscribe, hard and Tommoveable. Terminations. Chronic heflam. larely or never terminates by Delitercence. but secasure nally by Metastavi, which is productive often of serious Consequences, as an when becoming my may caux apoplery. he some cares resolution occurs and thouto always be attempted when practicable. Secretion of Lerum and other flust is a common occurrace, and is the principal Course of Dropsey and the few discharge of folinds from the Lungs to often seen in Chronic Bronchites and from the bowels in Chro: Diarrhae. Effusions of coagulable lipuph for etimes occur but never to any great extents and the aght or captale in which it is theated remains free from airean which is not the case in dante as they are then the chened, Sometimes there are adhesions But in Chron: Tuft: large blocculi of lynight are after effuned with the Cavity of the forit; abdomen &c

Chilmic hoplan continues for a peach ra the is paracon a. Atta li to tractional see that when the vacuum as brue laws well to a core and then to always attendated when freetrate a location of design has to care of defrice and the few michage of plants &

laining hadness and enlayement. This form however commonly terminates in hoppuration. The pur here differs from that in a arte Phlymain by being thinner whiter and mised with for centi, & while the serous part of the blood, and is soid to puter fig trover. In tome cases it has the cream colour, but is never destitute of floccule. When it change from the acute to the chronic form, if realed superficially the alteration in the hus can be perceived. When the Inflam is deeply deated or in the all. ment. abscerses are often forme before the patient is aware of it, and present a large both in moreable haelling weternally, and in course queuce of their occurring inthat heat they have been termed by Franch disgeous Cold Ascell or abscerses by longestion, and may fer wally be cousidered as wery dangerous from their arising in weath petients ain debelitated constitutions. From the stow character of this inflam, they are a long time in forming, sometimes 5016 weeks, bruttine, as many mouths. When forme a cystis prepared for them by adher: inflam. which is very detirate and is not dephasted by the surrounding parts as in the acute, but the all: and Lerous ment: are notall orace, little implicated, and as the hus ablects it is spread in every direction, with but lette lendering to the durface but who be carried by it gravity to the most defrending part ashih i generally at a couri derable distance from the part where it is formed. As we proquently Lee Sumbar absent make it appearance at the grove and toutines trevel as

wing his new with pulserment to the the live hat of the Had a Dis hours In how care it has the man freg to precious. When the Relieur very dangerous from

in down down as the foot. This is what Thenter cales an absort a part, but, not a part. Enlaying there in every direction they acquire are in necesse time, and Leveral quarts of matter with brustines accumulate before it is observed. When it does arrive who the Suface it has no disposition to point, we is there any discoloration of the Min but miformly an eval turface is presented - After a white however in consequence of the thin becoming very much distended by the constant accumulation of pus, a slight thish of wiflam is perceived, some pain is felt, elevation takes place and the matter is discharged. Thitherto the patients health and then the have been very lettle affected, but as som as it is evacuated, even of it is much com des able debility is produced, and if large severe inplane. covers the whole hurface in a few homes. The Pur becomes acrid and exceedingly tetid, followed by virtual con Hitulion at dysuptous, but as chills, signs, fever and great prostration. The cause of this hidden change has waited much distinte, Boyer, Thombron and home others day that this Anouge is produced by the Shoulding effects of atmospheric air which produces a change in the Lecretions and lender them putrid. Abernethy heppined that it was produced by the continuous Toplan. Apreading from the orfice first. Caused by Maration: but the occurrence of hollaw in the cavily however produced is wident from the hevere pain and heat felt in the part, hence the greater the extent of the cavily the greater the danger arising therefrom. Thought

ing may march mite har be the my fully extension late there will the hite of Heterlo the policet health so the eth iles made and to all delite a hate D' S I ha in soil in anounting fatile, followed Showed is produced by the whom is to contrium on Tellain to led bring forter

Hectic

the patient hervice this, the beder of the cavity with gradually conhad and its whole extent in length with become a firtulous Ine: this may trivally head and the patrent knowine, The Fritula is rometimes Nept up by dead bone, in buch cases they generally prove fatal from the continuous of the discharge. Cold and Lumbar abreenes are not necessarily fatas when off to nature as the copt which writing them is whomly a Learnting but an absorbing membrane, and it the general health should continue good the absorption may take place in much greater quantity them the Lecution can be formed and in this way perfectly reston the parts to their former Condition without any bid hymptons attending. The danger in a great measure depends on the constitutional hypothers which are in proportion to the violence of the Tuffour. The most prequent consequence of chronic Tuffou. which we are catted whom to treat is

Hectic Vever

This is a sympathetic distribune of the general system arising from owne local Fuflam. in a debilitated constitution and A beaus the same belation to Inflam? Fewer that Chronic Toplam. does to acute. In some cases it arises ountly from the stight irritation produced by opening an abscers and is particularly aft to occur in a newwy temperament; from long watching, great anxiety of mind the Perhaps of is more frequently the result of acute the Phlegmon on Tuffam. Than chromic in consequence of the

Execute human this the today dre: this may preadly head with the patrice time Tisteety is truetimes help up by dead bones in Cold and dember abouted are here they hit an algoriting in endowing with the Die this way perfectly reston the proof to and this without my his spiriture aller dings darger in a great measure refused on this course this is a supportation distriction in in about and is portered will all to sacres

part be awing putrid. When this disease is about to make it appearance couri desable changes tattes place, the public becomes weak, small, Arequest and quill. this pule and contracted except during the pyresia: the conjunction is while, longue clean and red, appetite variable, bowels countinger. ted who the commencement but atterwards open and live whive discharges of wine, burning in the palus of the hands and toles of the Moon feel, colliquative tweats which are also and clammy, chelly occurring either during pyresin or appressio. There are also two parorymes in the Id hours: emaciation and debility increase rapidly accompanied by diarrhoea and exatement. Sever arining from the slightest execution, or the mallest portion of food or drink. The courequence of the great wehausten and prostation Atu powers of life blew nearly wahansted, and Seath appears approaching with rapid thides. Besides the tipus enumerated we generally find in the last thoses dedenia of the extremities, collignative Marshaa, wrotest Inflam; of the throat, mouth, and stomach, which is toutenwous. Apthoe are also seen ope the torque and in the mouth The violence of the constitution at hymptoms is in propontwo to the degree of irritation and if removed the patient may recover of he is not too much we have tet. This fever then is entirely dependant on the cause not on the absorption of four as was formerly hopposed. This is proved from the following circumstances 1th does not

0 contraction except during the projection the congressition and and channey chelly occurred with new y by bamil to diswlose and exatence to here the chiefeliet seinten , or the proched proline of for

occur when large grantities of matter have been alsorted in consequence of discussing ats cesses which would produce tedie of opened. D. The severity of the symptoms are not proportioned to the line of the absell as it does not occur from a layer where of the leg, white the mallest one in the Lungs, Brain he with really produce it. It may also be regulated by in veasing or diminishing initation. 3 that it preparents exists where we pus is formed. It with also be produced in consequence of the Cause of the Tuflam. Continuing, who from affections of the mind, from to Muspoe the progress varies according to the organ in which it is detun tid. What I have said applies principally to the allular went: and Lymph: Glands but when it wists in vitat parts (or find the symptoms approaching me aren the acute stage. here the abscesses are more circumscribed, the pus more landable and the constitutional symptoms commencing earlier. Therei's make it appearance in any of the Leer they himfaces &s muchus membri & its Character is much hisdified. Fleetie Fever beffers only from Taplants by its occurring in a debitatated constitution.

Freat: of Chronic. Tuflam:

we have nearly the fame indication to plfil. vis to frohostern the niflam. to the strength of the part. which is to be done by the same means, and accomes dated to the case as recommended in acute. Inflam. It of possible

seem when laigh you telies ue of discussing who are who of openio. V. The beverity of the synften to the his of the above of it they en he with really produce it, The may who he dente heiste where we from so from the with about to pro in equence of the Cause of the Texton intime when from affection of the drawn his how his Murghon wind doputed: Planter had when it wish to ite wind and it the weeking her Juca 24 monetal minutes one its character is lified, Fleetre , Tana troppen care as a commented in deer

unive the cause, whether, chemical, me chanical, internet or external. When internal we are catte upon to relieve some of the affections of the viscon which require med: treatment. Here the Homach and bowels much be attended to be that all perform their proper functions. It Thyrich wher purging. The must also relieve general debitity by nourishing dich, Jonies &c. Resolution in all pract. cable cases must be attempted and should metastains occur we must bring back the affection to its original Leat. In en deavouring to promote resolution we should resort to the means sheally mentioned, but here we cannot as in dante. Inflam resort to direct evacuation from the part. The must have unner ate recourte to the direct application of Thinali as alum, aut Lead; helph. Time: Coros: buttinate: Mineral Acid; binous Finch. oficin: Inspentine, Blister Iso. with Stimulating vintments made with red Preapitate, intrate of silver, hit. Hydra. Bas live with Tenfentive Ve. all of which ach on the fruit aple of imparting thoughthe and alling the action of. the versels. In chronic Tuffam. Him d applications should be used in preference to sintments, as the fat which enters into their composition has a tendency to relay the part to Which they are applied and cause debility of the venets. D. he using the sarring Alcholic Preps: and other Stown. lunt of a Whatile hature we must prevent their ways lation, if their Thinulating effect is wanted to accomplish

was divide theater a strong to a along last into bethe Times which we must cover the part with flamed or oiled with. the perspiration is also conducted on the sill, which theeps the part moist and comfortable. It is only in specificial Tuplace. in the Ege, throat skin tre, that we can result to this more of treatment, and when deep seated we must have recourse to revulsants as setous, inner blisters, Jack Ench outment de, of there blisters are to be preferred in a majority of cares are repeated. We must ach slowly and be careful they do not for duce constitutional irritation; for if we in wear the general hymptons we will aggravate the local. The couragueures of chronic Tuffami. always require attention. Heren there has been an effeciou of serum or congulable lymph the remedies for promoting absorption should be resorted to Mercury in small doses with the formed very useful . At debility and writability are very aph to evil me must be cantion in its administration or we write existe fenor. to prevent this courtine it with opinion and leave it off when it affects the mouth. I decortion of words at farsa. Serilla se, have been use in this Hage and said a ben of great advantage, particularly when the dystem is any writable. By such means then we obviate the Musican Affam: and try to promote Alceration by the means abrealy mentioned; some times however suppuration does latter place then we must resort to astruguel and Thurstating washes assisted by counter irritants which invote the flow of the food from the met part in for it in in m

this may be easily accomplished when it is deperficial but when deep seated, coto abscesses are formed, and when formed they should be opened for the Lollowing reasons. Het Because the surrounding parts are too weak to carry on the absorption. 2. In couragnesses of the as hegions king to High the that the abover spreads and enlayer &freat fore hence the necessity of producing other. Tifl: 300 From it not being opened early the Min becomes to thin by abroiption and the little quantity of blood parking this' it that it is emitte to write with the other parts. 4th The with also prevent in agreat measure the violent symptom which follow a sportaneous opening as it does not cause so much insitation. These remarks apply only to mall abscesses, but when they are large and dup testes the 1st Indication is to dis ans them by the means abready mentioned. Much in such cases depends on the restriction of the general health: for frequently by establishing that the pur is speedily abouted. To accomplish this much benefit with result from Lea Baltung and gentle essence Di thyrich re commends purping on attenute days with cream of Tartar and Jalaps. Emities of sulfish. Times are recommended by some athors. Lette Foris must also be used. The Local Remodies most approved of are the long application of large History, Setons, Atime lating proteices but not where the part is their. looper recommends common dall and trate, 3 fs to spint.

him De they show the spenies for the pollowing account the Because the noncompling parts are to week to con the abordation. I'm inversement of the allered his 4th H with also present in agricul margon the molale toughter which follow a sportance opening in it has Course to much writation. They will apply the tree is theeding absorbed to accord also to easy the decide along in the wind appeared

Teat Portices also, but they are not to good as blisters. Thouth there means fail and the Secretion escent the abrufity an opening must be made by the Sugeon, for if left Jopen by Meeration violent utlan: and Horghing of the parts are about some to follow. When we have actermined to evacuate the natter a valvalar opening must be malle by passing the Knife Attiquely with the eyes, to that the opening into the cych heay not correspond with that in the Mir. As soon as the opening is made the matter must be evacuated in a continued Stream by well regulated pressure, to as to prevent the admission of atmospheric air then as much as law be got out with lafety is removed the parts much be book into inmediate contact to that they may unite by the first intention. By this couple manner we are sometimes enabled to present the violent Constitutional affections which follow. M. abunetty was the first & open there abscerves and in long to he cantions us to open them when the Min is wiflen or thursed by absorption as the edges instead of uniting with transcend the aches: lift: and cause supporation. After opening a shight wifl ensues attended by a theckening of the parietes of the abscess by which it is made smaller, after a white the hus again accumulates but whin so great a quartity here we must result to the same me ans as before find to promote absorption; of that ful open it, with the

a sometime enabled to new

fame pre cantions as before. To mething a second opening the with have to make a decher incision than at first; in correquence of the tides of the abscess being theker: The when ation show take place at the orifice as previously mentioned, it is not to mobile as it would be at first as the opening is maller. Fisheta vecarinally occurs: tour times from a diseased home, at others from weatherfoot the sides of the about, in its not being able to throw out. gram later, and take on the ables: wift. When Ih arises from weatherests only and there is no will: we must resort & Structulating and astrongent injections as Fruch Cantharids Port. Wine the which give love and thought to the part and at the same time allow the hides to contract. Sometimes the dead bone may be sen over, or the symptoms mitigate in a measure by the removal of a part of it, tak it is well often the Case, and consequently they from fatal.

Treat: of Freetic. The general symptom, ansing from chronic wiflum. are such as manifeld whater. They will require gentle town medicines, atum lating dech vo. Oce as in ally they cause hectic in such cases the 1st Moriat is to remove the causes. 2? to lessen the general irritation 8 to pine strength. It Whenever we can be ceed in removing the cause the fever wile cease wells the patient is very much we hant to, here all bo cas writations much be sought for and removed. With this view we much distant out tout out turnous, remove diseased tone to the they

However a test as hingrand wife there as had The later and conjugate they from got trouble of the Mercene we can be seen

cannot be removed the influence of their effects may some times be donowed moderated by proper attention. The often happens however to be deated in deep parts as the langs se When this is the case we cannot remove the cause; but here we must attend to the general Lysten; impach strength and thus lemme irritability: for as strongth in creases debolety viri tability decreases, and thus by decreasing init. We in directly give strength. This is done by avor ding every cause, the state of the bonds must be attended to, as well as the stomach and the dich properly regulated Ther justile food wite always in evense it, that which wile generally be found the best coursets of milk and the farinaceons articles the Mb- acid fuits, declare Mofe. Eggs, negetable pellies. De. Amin at food should not be allowed particularly in just money heter as nothing with aggravato it more, But in hethic from other causes (if there is no febrile up ate ment caused by its whother, a tell to may prove useful. The avading Effluria, and the lise of fresh air are necessary to restone the queral health. Guthe ever in as nichig in a carriage Lending de is good. Freat attention must be paid the patients' mind lest it thous prove an aggravating cause of the disease, hence the whility of a change of seem, visiting watering places &d. Emetics and Cathartice toutins prove useful by removing any irritating substance from the Now ach and bowels. The 2. in dieation in hectic is to prevent and lessen irritability, to accomplish which

u while the war tabeled - the course of the first the and air a family the last blight feet stylish shares

Treat of Steetie we ment resort to Narcoties as licuta, Opium. Prumi laid Digitalis. Of these Opium is the best. Hey operate by extruit nowers irritability and newous estituent inducing thep and che Ming propuse evacuations from the bowels. They Thouse be given in full doses ain hour or two before the parage, To invigorate the patient besides diet, weraise and fresh air me must resort to the mild tonics. Itunali here are always improper enters the patient has been in the habit of drusking, then a tettle good wine or brandy may prove asept. Circhona is injurious and must never be administered as it is too Stimulating and offrenes the stomach. Chabybeater are very proper as well as the acids, as chitrie, bulls huric, and Munistic, also Elisis of Vitrol as producing mo derate wacuations from the Phin, The acids must be detuted and are then used with advantage, also the prussiate of iron. In the low cluding stages we must endeavor to prevent the fatel termination as much as possible: with this view we must endeavour to Hop the colliquative d'arrholas Levents by whatever tends to promote strength. Elisir Vitral Line Water courbined with bitter infusions: Chath and thin are who for this purpose. Lith Shit are le commended for the purpose of presenting the evaporation of the perspiration. Opinion much be given to prevent the paroxyme white chitie the are given to allow, Triphoreties are very improper.

hoplan: is more fred by a variety of causes as structure function &c and defferent causes produce some directly in it symptoms, as it is hardly possible for 2 agents to produce on the same time precisely the same effects or Buil of inflam. But there is some peculiarity in the hind of pain or its appearance, this important fach is collinowledged by all scientific Physicians. Tudwiduch articles of each class also differ from each other not only in their degree of inflam, but in their Kind as Rubefacients differ from blisters &c. The Jame is the case with Mustand, Alcohol, Turpertine, Alute Muni: laid: Jant Emetic, Corros: bublimate, poisons, caustic &c each of which carre inflam, but each one is stamped by it own peculiarity: In some cases the Difference is very slight, but the there is a difference: as a blitter varies very much from the suption caused by Jant: Ernet, so who the different incharation produce different flought. That no how agents produce the Same effect should constantly be borne in mind that all stimuli should not be in discriminately used but a selection made, as the inflam. Caused by one may be care by another, yet each with have their headianing morfied by a variety of circumstances, chemical as well as mechanical. Among the frist we heat & wa, the latter continues is wound I of Juft: modified by heat or Caloni. In order that you may understand how wift: is modified by heat

In Th au ors W of 1 de Le 6 a 1 1 0 I must first thow you it effects whom the firsten. The matter that causes a Louration of heat is a stimulus and the effects depend not to much on the degree of heat as the repridity of the application and the state of the Lythen When are individual is report to a motherate degoes of heat the first effect is stimulating which is down follow is by a tragercence of the capillaries, which redden, the surface the cutameous veins become larger, the Sensations be come more acute, the mind uphilarated the action of the heart and arteries in creased, pulse puller and more frequent & the beeretions much augmented, in fach every part of the body is weited and the must-delightful densation por duced. This is experienced when we prish when the tropies. If however the influence of the hear be continued any leight of time he with Complain of ability & lassitude, the pulse be comes weak Tho' still full and soft, thin, mouth, & fames dry & hawky the secretions are suspended and a ston fever junerated. Hech then when first applied increases action, but when continued debilitates, this debility arises from the long continue ance of profuse discharges, and also may be accounted for by the universal law that after inordinate waterment debility and prostration must ensue, hence heat is directly a structant, and in directly a Lettative. From these causes therefore, in creased action and evacuation we account for the

der 07 wi 01 w 2 1 look every back so the bake in walket is the

Inflam: modified by Heat debrhtating and relaping effects of heat. What is true of the whole system is equally so of a part: Examples of in rivect debility in a part produced by the toutine and of heat is striklingly exemplified in the hand of washerwomen: being kept for a long time in wanter the Min become Shriseled and white, the circulation is diminished, and the hearting suppressed. The Same effect is Leen on the application of a posttere, here In should whe toutimed too long over a toppura trung surface, sor pear the surraunding parts should be come too much deboth ated: buch therefore are the effects of a moderate begree of heat, but we also pind that the body is capable of bearing are excessive deque of head under certain circumstances. It has been thown by repeniments that are individual can withstand the temperature of 250° F. In all there cases homewor the heat was gradually applied, a profuse perspiration tatte place and the heat of the body is ruly increased 3 or 4 degrees. Hence the mere application of heat is not necessarily problective of Full. provided there is a Secretion of Leveal and other fluids, and there should not be allowed to evapor ate too hastity. From there arcumstances we find that heat to agreat linperature with not produce misch if it gradually up-Mid but if hiddenly it and very differently by causing violent inflam: and even death of the part. This of

 2 Rinds that which results from dry heat terried Pavrus; and that from hot this do termed Needles they with both be treated of under the head of Burns. The degree of hell: with be proportioned to the degree of heat and for this purpose it has been divided into 3 stages. 1- Simple Reducts. 20 Effusion of Sum containing veniles. 3 The The ture is destroyed and an eschar formed. The three are often united as it is hardly possible for an eschar to latte place without the other degrees of rifl: in the surrounding parts: this is a very important fact and should be remembered information. The pain attending this from of Tuflam. is key severe and fromgent, with a great in crease of wintability and sensibility to much to that timply exposing the part to the air aggravates the pair. There is who a great disposition to berows effisions, and whenever the cuticle is actacked we have Supposation without alceration, but if the lexture is distroyed an Muris former which first decretes put: atter a while however it be comes in dolute. The prameting are weath and pule cientri zing slow by, and with a great disposition to contract. In the 30 stage where are eschar is formed It continues to enlage by the gangrenous Tuff. this takes blace in consequence of the Ledative effect produced by the heat. The constitutional symptom vary very much being swerer in irritable habits, or in children, oto choping or intemperate palicies, there in the middle age. and in proportion to the extent of the burn, and not the digree

literary was that you was from How to termine I get ellering not whenever the cartists is that to tex he

of heat, as a bun that is extensive the caused by a motherate degree of heat is much more dangerous than that of a make netent, the promied by a much greater heat: have the danger arising from Scalor, who when a delicate organ is affected. Then small very few symptoms or constitutional disturbance are present: but when we tensive, there is fined toughe, the pulse is sometimes not affected for several hours, then it is quick and vibratory and differ in it ful from all inflames and is in dicative of weat writability. When till greater the system yields at once to the violence of the short : there is no pain but the patient complains of being con and he is dult and Stupice: chiles and rigors come on followed by coma and down thine, commelsion, when Itile greater there tipus are not produced but sadden prostration and unmeriate death is the consequence. How times however the system reacts and watert febrile symptoms occur, from which he is the in danger; also from the violence of the short the severity of the local inflam. The occurrence of gaugenous Tuft. or profuse discharges of pus from the eschart: Anch are the peculiarities of hope. prolluced by heat, and which have attained the title of specific The specific nature however must be regarded and the treatment conducted on the principles of hell! Fever. dreatment. Butus may be want dered as a speaking. of we couri der a deviation from the common phenomena as such:

desirante sucress from alately, who when a dit to take in expected. There is not very few southours on waster line district our on present that when it the in the wife that he chile and wigner land in followed by the ale mot produced that the the fee tradice and whomas worth and verlender lebert by aftern over from which the decerity of the word inflam. He overnound at sandering talls to propose thereton 111 of for from abbands onch on the prosterities of little morning the war com deer a destration from the course on the his house at his

Treat of Burns. As in these cares wh is morrified by the cause the treatmentalso in some degree varies from the other inflang. The heating Burns is Awilled mader two general heads constitutional and local. If the constitutional tymptous are not whent we must en deasour to manage it by will drinkly &c. But when symptomatic fever is in ariew, It is of an inflammatory type with nervous irritation, hence we resort to a low dich everements. V. I particularly, this is also demanded by the Severity of the pain: the contition of the public is generally Small - The use of toward ablutions are here very useful but fatural only the Mesholic but as the critatility and Senithally are greatly we creased we must resort to thism, and the other harwtin- Open shouts always be resorted to when the system is irritable. In all cases of retensive burns where the system is overcome with chiles, thivening come to the System must be raised by stimule applied both ester mally and internally, all evacuations and enfrome to cold air must be avoilled: this is accomplished by wraffing the body in warm blankets. While it the Same time much be frelly administered but by for the best-thinglant is offine in dozes of 60 or 80 drop wis tauter and

are not to be outerred from its some use by the Comatone state which is present. It Bell says that it is the best

ama was stways dependent on an enjoyement of the best

the in their care of

Local. Treation Burns of the brain: but we have great reason to hippore that it is dometimes dependant on nervous affections abone and particularly in this case. Travers however declares that There is always injurious in comes thout the system wach the stringle ment be omitted, and sometimes it is necessary to resort to evacuants, that not often the case. The wine and opine night be continued in moderate dotes to Some we tensive cases of the 32 variety of bonus an inflany Finer arises about the 20th day, is called be conday, here the system Cannot bear deptetion as it is of a heatie Type; but we are called upon to Ohmenish irritability and support the system seconding to the principles already established. During the propuse discharges cause by Storyling the dystem must be supported as in other hafted Local Steatment. This plan is generally surprised as there are no positive rules by which we are to begoverned. I Hall treat of it under It different head. It of the Freatmuch for tringle Redness. 2. When it is accompanied by verides. 3 to When there is an eschae . 4 th When there is Maratin and Cicatrization. The 1th must be treated by evacuants, and remedies calculated to moderate vascular and newous action: to produce delitescence and prevent the formation of verides. This is best accom-His her by repellant and Ledative articles: lota is very good for this purpose: lothes well, ice water, con vinegas and water, agur. ammon: Ather Be. or from the is or

94 Local Freak of Burns. mon with land, all of which are rendered more powerful by the addition of astrugents as Vacch: Saturni. It was Much durinishe the irritation, and in tome cased tehiers the symptoms entirely which is call Delitercence. To obtain the good effects of ear it must be in consistingly employed, for it hispended for a time, reaction takes place and the symptoms are aggravated. We must never resort it however when the patient complains of cold or when the system is prostrated, as it is only applicable when the niflam is violent. Freat benefit is derived from scrupe protates, elother evel with vinegas alcohol, Ether Apts of Surpent: Be. also by excluding the air from the part. On this principle we can explain the good effects cesulting from hiseed oil, olive oil, hogs land, and especially the Carson oil which cousists of line water and oil. at the other oily and whiction butstances: Larrey recommends letrice Oritment. Lotton probably acti in the Lame way by cocheding the atmospheric air: In the 2. Stage the heatment consists of the ale of Aleshol, that of Furfentine, brandy and the resinon, buts laurces generally, I wester was the first who intreance this practice fall there ach on the principle that no two structi can ach on the Lame little at the Jame Thine, as a blister applied To a part affected with Engripelas with our it. Impentine is applied to a burn with the dame view! Hey atter the action

of the part and substitute a new one. Infentine is only useful for the 1st 24 hours or until it overcomes the peculiar inflam: of the burn: if continued longer it with increase it he mit a cases it does no good but with increase the train and if applied to the found parts it with inflame, hence oh should be applied only to the infused hisface. The other thinn lants recommended act in the Jame way. When Burns are produced by the enplosion of Fundowder, the small grains must be pilled out with a medle otherwise a cept with be formed around them by the adher: wift am. and cause deformity by leaving dark the to the 2° stage when wereder have been formed or where the catis has been actached, the inflam, being in duced by the same cause, and being of the June Ried only more violent them in the first degree we must resort to the same seme dies, and the only question here is the management of the blisters. All at the present day agree that they should not be opened unless painful from the quantity of water they contain and when they are of med let it be fore by a small sunstine of a needle at the same time be very careful not to raise the article as stoughing with he aft to take place. But when the article is actached and there is a Mischange of prus which is generally very profuse, the dame treatment must be resocked to as as commendo under that head, as mile out ment, the earon oil simple cerate se of the discharge is very profuse we must resort to the astrugul and

Local. Treat of Burns. out-ment. Here Guland's our toment, Kentes her. Furney Cerate, He with be very useful. for times however when the part is heary irritable and occurring in irritable constitutions are much usort to the use of portlines, after this a new cuticle bon forms and the parts entirely heal. The 320 variety is where eschar with, this form is generally turnounted by one or both the other stages. In such cases it must be treated as if no eschars existed, until the purposet pain is bublied. If it is very made we used not apply my thing but let it head as above mentioned, when speathing of seabbring, Sometimes however they are very extensive, and profuse supporation talks blace It then becomes necessary to resort to thinulants in ternally assisted by Terebin thin ales en lemally with a voice of hipporting the dystem and existing the Saugree our Leflam. When by there me and the Sangrenous Tap. is arrested, the other whating applications and to remove and mild pouttices butstituted; occasionally the Houghs penetrate very deep, ever into the cavity of the forits Carries many very distrusing hymptons, as fever, Subsultus ten dinem &c. Here ben'de the constitutional remedies or Phyrick recommends the use of applied applied To as to the fut completely ah rech and by this means he has presented in agreat measure there constitutional affection, so often attendant on these cased. Fram lation are to be heated at those

Africa sim with propose before the interporters the on

Local. Treat of Burns arising from any other species of Taflam. To prevent their fungous growth, escharoties, prepar. Chalk, Lapis Calaminais burnt alun: Causties &c assisted by bur dages and at his inc Straps for Ater purpose of making from pressure. To present min between the hides of the brigger, wetter, none or any of the natural passages, their surfaces much be test reparated by interposing dressings between them or the prequent intraduction of some instrument. There is a many great disposition in gramlations and cirutrices to without and cause deformity, but may generally be pres enter by bandages, proper proportioned splints, position He. If deformity has occurred her Each recommends the cicatrix to be cat out, this forms a new ulcer which nunt be heated by such means as with prevent the Reformity Others recommend us to direct up to a certain point and then reapply it and endeavour to produce union by the 1st intention. The advantage resulting from this plan is that we do not execute to intensive an whee. I think this flan preferable when a Cicatrine Completet derrounds a himb as it sometime, acts as a ligature and Cause, an interruption of the venous aventation, when this is the case the plan recommended by It thysich is to be resorted to which consists of a simple long the die at or to auswerse in cision after which we prevent union and contraction by the proper means.

for your growth, exchainting proper Charlet lexis later de between the title of the frigor, and the Who while by whatpoing duticity between the or any your disportion in grown latine and district endrate and cause deformation bake may prevely be has white by bankages proper portuition to sphish poster the The deformed that seconded have have have been such Ather lever have on to dished who to a intain mich he the resplip it his to dear our to produce union by the I from preferable where a liceting any feltety demoners from externe and to say a layation and course on termplation of the very apartation to him billing the cire the plane wednison de by fre Physioll to low responded to when to coming to of a heap to long the his at or he resource in circum to the with

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Inflam: as Modified by Cold. Friday 98 The general effects of cold are direct or indirect. It demands for its in cothyation an extensive Mouladge of the human body. The effects of a diminution of temperature are modified by a great variety of circumstances. They vary according to the Theight irritability and habits of the patient to whom it is applied. It also varies according to the means or manner in which it is applied whether by gateous, told or fluid substances, or good or bad conductory of caloric. or whether it is hadenly or gradually applied. The living loody possessy the power of generating head by which the flood and all other phinds are Mep & at a certain Han daid, and this temperature is very lett be affected by any cante. I have already beind the body is capable of bearing a great degree of heat, it can also bear a great degree of cold. When how ever the discounding atmosphere is at the Same temperature as the body [98] the heat be wones very oppressive and unpleasant in consequeme of the equilibrium which each between the external hear and the internal organs by which they on presented from giving out any of their Caloric. 620 is the most agreable but if the themometer suk klow Tero or even to low as 8° the internal organs remains The Same and present are uniform temperature throughout. This resistance may in a certain degree he termed passive as we do not see any symptoms by which the body is generating heat. When the body on the

reflere as the define by loke er 1 contrary is exposed to a moderate degree of cold and then brought into a warm room an agreable reaction takes place the nervous system is waited the appetite is increased, also the secretions and there is a universal glow or the horface here when the degree of cold is not two great or two long autimed, in a healthy constitution, we will observe the same phenomena that result from the application of thinule, and on this account it has been cated a Strindant. and by others the Tomic effect of lotd: this effect however is only secondary and the first effect is directly redative and this is of great importance in practice. When the body is refrort to a very severe degree of cold the first effect manifestell is a retardation of the capillary circulation: especially in those parts for unover from the heart, the thin at first is of a dark wed color, but very From be comes pale contracted & rough prolling what is called testis exuseria, this contraction extends to the cellular time, migs fall from the frigers, and the actual buttle of the body is diminished: the respiration becomes uneary and is attended by solbing the force of the heart and arteries are diminished the pulse is tourstimes frequent at others Hower than natural Sens ation is blunted the at point it is very acute, the men tar power As decline, attended by great muscular debility & lop of laste of very long con time a, there is difficulty of speech, the right also is look with a tendent

100 Inflam. modif: by Cold. to thep which if in Muly Ed in who he follow Ed by a come tore condition, or state of asphysica manifesting little or no tigues of life. From met a state we ke no effects of a Structant nature but on the contrary of a direct bedative producing entry via and finally death without being frozen. If there is simply buspended univertion it is possible to recover the individual to affected but if actually from there is title hope, willed we hence heard of a recovery. Richter Lays that it is possible to recover a body when thiff power the no Aforion has taken place in the brain and the heart HIll acts. The Henter on the contrary declared the all vitality must cease before any animal can be froken, this he proved by many experiments on annials. Thomprovis repenients also prove this fact, and at the Jame time he declares that if cots he bifficient or long enough continued to fuere a lind. that recovery is air. posible, in this opinion he is hystamealy others. Such then are the derect effects of evil when applied to the whole ofsteen, and from which effects the body Carnot be recovered but by the effects of atmuli: in resorting to which we must be very careful, for if an we dividual who is laboring under the direct effects of ever is trought into a warm worw, and the use of Armulating articles resorted to moh as hot teal, or today, holah articles to the hostiels, with warm injections

Treat: of Atphyvia from Cold. he will be speedily recovered but the reaction with be so great, that to with die from an anciousal apoplery asit were. I Hellie has published a paper on this subject in the Edint: Mids. by Review lot 1th Pay. 312 in which he declares that there is no danger to be apprehended from thouse in thole cates. Many others are of his opinion but his observations are not correct. Richter, Collisen. Larry & John Hunter's experiments confirm the feet that if too great reaction takes slace beath with be the consequence. This other ations go to prove that if any of the higher ating animals which are in a torfield thate be exposed to the rays of the serve equal to a temperature of 600 it with recy boon marin feet signest life but it with die in a very that time from the effects of thinule; while others that are high in a Wood of about 40° recovered. He also states the circumstance of some black birds which were fored from the Levents of the weather to take refuge in an orthouse, some from an Il pidgo compassion were brot in and enposed to a contiderable degree of heat, all of which die a what the others ord well. Death theufou takes place in 3 ways 1 from the direct influence of cold 22 by its overwhelming the System and fro during Gangrene. 30 from the indisicheffects or by the violence of the reaction causing inflam! Fever which may wenterate in Flectic.

indication, are to raise the system from the sebative influence in ducied by cold, and to in there a safe teaction

00 6 allegall from who have were pour over 40.4

care being taken that it is not too violent, to accomplish which calorie must be gradually applied, the patient must frish be brought in a coto wow the temperature of which ment be tittle above that to which he has been report. of any part be frosen to do which requires a temperature of 250 Fif it ment be subbid with show or in, which is heat to the palient. But if the coto has not been intense and the strength of the body not much reduced. The ice o mon may be omitted and warm plui as substituted with constant friction with the hand or Hannel to the part most affects and to the thorase assisted by other and the bol Salts to the nortrib for the purpose of eacting the respiratory apparatory also struulate the explor part of the throat with a feather and warm enemate Highthy structating must be used. When tigues of annivation or reaction appear fuitions thout be made with cold or warm brandy and other warm afeplications as hot water put into bladders and applied to the epigastrium, continuing the structi to the norties, and as soon as he becomes able to twallow give him tome warm drink in mall quantities as lea, broundy toddy or muleid wine, with warm injections. After that he may be carried into a warm room but by no means near the for fire. The warm thinks should be continued here, and of would be proper to place him in the where the Calonic from his own body will gradually accumulate and by a continuance of the frictions a perspiration with gra-

duch of attoplayor from lot the pare having to the that it is inch to saw but to a count litt which colone must be you so the applied, the point brish be brought in a cold wow the temperation of much the lettell where that to which he has the capead. any part he proteer to the which required in the proteer 25° Tif it must be with noth hum or in which is he the showlette of the body not much advise there nay be omother and warm pluites the liteless will trail protein with the hard or Hained to the part the Hall the Hallette and to the thoras amonted her other and the bet better to moderly for the property of waters the respiration of who stormaliste the explore part of the theorist with a feeter and wine come to thight throught the one the colores at hat water fut into Hadder and attend or som us he becomes able to twallow you him town warm drink in made granteling as tea, brandy lotter muched wine with warm nigo thing of the that he amid with a bearing rooms took by goo to an and but fire The warm thinks though he toutions the word be proper to place him in this them to

treats out when all danger as respects the first effect of with is paried. At there always seems a disposition for reaction to take place after the use of est great caution is necessary in regulating the degree of stimuli book internal & external. When however we tesort to the use of Edd it must be Carefully when, for the two freely when violent reaction with be the lousequence or puhaps Tuflan. " Fever and If to long continued Seath. When from improper management too great reaction has taken place the Sugeon may generally prevent its bad effects: provided in disorganization has taken place by removing him to a cot itmosphere and making use of End applications in some cases. I.S. may even be proper or locally to as to pretein the viscera. Effects of Cold on Farlicular Starts of the Body. Here the Some distinction must be drawn between its dire of and indirect effects and as in coto affecting the whole system and it should never be progetten that it direct effects are dedative. When applied to a part the Same Fyrufetones occur as when apphia to the general tisten the thin loves its color and be comes contracted, the untability is lessened and the the pain at first is very acute the Lewibility gradoubly drivenished with a contraction or diministion of to parts in size ( as proved by migs dropping from the trigers the their is now deadly pute. The pain here pro unce has been cated the struck, of deux ation and whis on acct of the pain and contraction that it is catted a

a page , who then always began a disprection for borning on terest to the use of Eit I me ident affect and in in and apportung the which is

Effects of cold on Partice Parts. Himmel and. Why it is produce we cannot explain hat it is also occurs previous to mortefrention or when the part is about to die, also from long fasting. In this way perhaps a part of the hody may be take a from the direct effects of cold. I day perhaps, because it is denied by Lancy, who asserts that a frozen part can always be recovered and that est is never the direct cause of death, but this is not eminersally the case for if the pat is actually dead it cannot be recovered. When however he at is rapidly applied to a part depressed or taked by Cold, reaction takes place, which varies according to the degree of depression and violence of Thinales applied. If the reaction is a defe one the tenues un air some & perform their natural functions: but if it is mobile it with be follower by a high degree of heft. hoppination gang reme de. and in some cases mortification occurs with out any previous wiflam: The wiflam: or local affections usulting from enposure to cold have been termed Permis and when death takes place chilblain or front bits. Richter de clary that cold alone never Cause Inflamor ahiblain. Larry calls it a pudisposing cause to chilblairs. Thoupson Lays that it is always owning the Thru wher of heat, hence esto never directly produced inflam or mother cation as it is always owing to the reaction. That this is true various their facts may be addiced from Hunter who for the ears of rathets and then booke them, when no hemoushage took place.

the reaction is a fale on the topic to min lower & and previous in faces i to interior of local alle this

Treat of Local effects of lold. 105

Ater a white they were gradually restored, and then formed wey much the Mented and inflamed thorning that in was noing to the reaction and such to the cold. Lancy der lonfirms this fach and days that during the retreat of the French Array from Eylan, and while they were uchord to the execusive cold of Mussia the men continue healthy, lend as soon as they arrived in Prussia and got into comportable warm hat, there in mediately broke out violent Toplam! Fevers terminating in mortification and there who kept themselves warment offere most. There Rinds of wiflam's affections deffer somewhat from the Com mon riflant and resemble, tays Thompson, very much that caused by benny and like them are divided into 3 stages. It When there is only truple cedup. 2. When there is resiention & 30 Janguene & Sphades. The first is characterised by diffuse wife. and purple color holding and frain, the latter of which is attended with an itching or trugling densation, with heat and reducto. When Levere, resications attend which boon break and are followed by suppuration and Wearation which is very han to head as they foon become phagedenic. The constitutional symptoms are smilar to those arining from other causes, some time, mortification occurs before other symptoms.

The Mut. We are to be governed by the same principle as when the whole system is effected. The leading in Meation is to restore a

last iron this fact on day that Marline the The election for the land is which there we other tweeter is stored as they bearing in thesein was confestate war hate then in a rett but there who light themselves warment before most. Here line to it wifelder a plantion after times heli from the nich that cantil by terry and to the then on this an exclusive to freezering languation, with here in which being him to head as they some bearing the French

Treat of Local Effects of Cold. 106 moderate reaction. This is to be some by a gradual in to duction of calorie. The part, especially when toopia, must first be in messed in ice water or know, care being taken that the parts are not fractured. The Regue of head must be very gradually increased, assisted by friction with what brandy, camp horated spirits; vinger and perhaps temperative &. Never allow the patient to Come hear a fire and in Levere Cakes not wen wito a warm room, but place him in hed and allow his natural heart to accumulate. If however violent teating aves take place, Richter days we may ful a stop wit by inmening the part in a freezing misture. But if Inflam. & Chilblains are the only consequence of reaction it may be greatly moderated or removed by the use of wia as de Water, a cet of Lead se. Sibson recommen's covering the part with cardea lotton. When it becomes chronic, good effects are to be desived from the use of Atmenti me has ablited muriatic acid; a dotation of Minr. of ammon: Alchol. Bil Furpent: Inch. Byrch Forlands Lot alum Lotion B. It very celebrated remety in such cases consists of equal parts of Oil Swithen time and Baham Copaira. Wardrop re commend, That of but Limment & 1 of Canthanides. The camphorated himment is also very useful. In the 20 deque when There is verication we must allow the vericle to remain anopened and en dear our to moderate the

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dual of Local Effects of Cold. 10% hymptons by repellant or strundating remedies: If the outide is unoved and supposetion take place we must resolt the mild app lications to often recommended. If however the Welces be comes thage derice we must apply emotherid postices, also the internal and external use of travelis. When Jangrenous Larrey Moon much the application of a blister. From there views therefore we may proceed to detail, the means by which their recurrence may be presented. Me avoid hadden transitions from a cot to a hot atmos-There . 2. The winter avoil hot rooms and when the palient goes out let him he properly do thed, & use fire twee and alerain fuely. 3 the most effectual means to price tone and strong the to the outaneous herface, and as it generally lepends on a weakness of this time. here it is have apt to occur in parts remote from the centre of Circulation as in the extremities. This also more aph to attent Chit drew and delicate few als from the dame Cause. for the purpose of obviating this state it will builting be necessary to resorts to Struculating briments and frictions. but above all cold bathing with or without dalt. In using cold it is done with a view of invigorating and increasing the capillaries, by the dyrer of reaction that latter place after its use. In this way I Lune bean very Incers ful in heating woo fut. I onler them to be in mersed in coto water Box 4 times a clay.

and other the to the out among halowing be be deline of lesson to blown believe but show all cold hathing with a wellent dall

Inflam: modified by ellechanical Causes. 108 The weternal mechanical causes are durilea by eler. Hunter into 2 divisions or in other words he treats of it in der 2 heads. 1th Is where there is no wternal communication or Enpluse of the caticle and terme a Contrision. The 2. Comprehens thou injurie, where there is an esternal course unication or repture of the cuticle and terned wounds. The 1th by Inflam. Influention, or Menution may be converted into! the 2. Of Contusions. When any foreign butstance is properties against living body, the effects of the signing with the proportionale to the momentum of the hobstance and the importance of the organ affected . As the effects of an eigeny clone to the Brain, Eye, Thoras, Hodomen He more dangerous than a like viging done to the extremities. It effects also depend on the detration of the part, as it is more severe over a bone Highty Covered with thin as the litia Ve. then over nurely. but it chiefly depends on the force of the impelled cause. There are I degrees of contrision, I shall furt speak of that species termed Simple. In this there is no injury of threature or whiting of continuity, but a partial or lotal Infecesion of their functions. Whenever a Hight blow is made upon the Min, the first effect is Iweaken the circulation, the part is member, and the nerve be may be paralyzed. In some cares the whole hinto may be in a state of asphyxia. The same thing happing four etimes by inflicting a shight blow upon the Homach

here dangeron the

brain, thorns, be causing in me d'ate death. Shouts it howeven be made or parts not vital they may be recovered. This is therefore the first degree and the Jame effects may class be seen in organs remote from the part strucken as concontin or contusion of the brain or the liver often happeny from a fall on the feet or buttocks, this is termed a counter thate and cannot wish for any length of time without pro Mucing Latal consequences. If the jujury is thight mo aucte reaction incliente renotion who ensure without any bad effects: but if severe reaction is more powerful and in some cases to great that gangenous Abscesses tatte place. Theree the reason why they is often occur from slight causes as it is owing to the deque of reaction and not the clique of injury in this Hage. It of the Jame time points out the importance of attenting a slight unjuries of the what organs.

In the 2? Augue of conturion there is a solution of the Continuity of the parts becaute the cutide with interup time of the functions Severe blows with often divide deep deated parts as servery and blood trends, muscle leading bome &c, without any division of the cutide. Many of there are is death are of a server nature and with be noticed hereafter. At present I that only notice that arising from the suptime of a small bloodwessel. Some things there is nothing by a beaute of in the the cultivar in the cultivar member: prochesing of welling & puffine of

(milions centerin or contestion of the frain or the live often from a fall on the feet or hattocks, this is terries come her strate in carno with for com to the time without his the wine fat of Emporiumet. The occur from Higher Causes of it is sing to the dispers of beating and had the dieses of winder in this stage The of the dame them points out the importance of a lease a stight engines of the what expense The tet I's Magne on fortunion their in a starting of the

as seen in sprains of joints &c. but generally the Ted Capi Clavies also throw out their contents, Causing the red color commonly catter Buises: by the Lunger Ecchymoris. The effusion always in creases the danger of the injury. The quantity is generally small and is soon absorbed producing very tett le inconvenience. Int occasionally a greater quantity is thrown out causing an interruption of the circulation by pressing on the news and bloods essels of a part, & well in tome cases artificially removed gangue or Aphacelus is the consequence. When the effusion takes place under fascia or other important parts it is buttimes productive of great mischif as un der the bracker, wrether Oldophagus & d. and it is important to werther that it is not always deposited in the allular time and is some times in the circumscribed cavities. In Eachymoris the blood is either third or coagulated generally the tatter, and us the blood travels along the cellular tisine, the skin becomes variously colored owing the different quantities of red globules contained in the Lerem. In a few instances however the blood semains fluid, and is wheated into Jaco or cepts forming blood timors. They are generally formed under the pericramin in new bom children in consequence of pressure during delivery and tometime, in worth from How De. They generally give wie to the behit that there is a fracture or defression of the bone they it thout in tome cases tem in this is

party & really in home cases arthropally walter garain or within bufulant but it is home time the the Host have to when the illular time the when

not Buown . Hunter supposed that it was owing to a long its vitality: The same is the dame in the blood of thou persony Pulled by lighthing, blows on the stomach, and in there who perish from nationant fever be. When fluid or roagulated it never becomes as chemical irritant, while endulled from the atmosphere, as it soon wagulates hand and becomes absorbed. It however the grantets is being great it may cause pursure and in this way actus a much anical irritant. Pellitier has thour that as long as the blood is excluded from the air no change will lathe place in it it from coagulates the serum is absorted and the coagula is they, and he faither days that when the quantity is large i'd require years for its absorption in the whole of which time not a single but symptom with be manifested but the opened they very soon putrity Cauring gangrenous wiflam. & teath; hence the acurger arising is chiefly from prenue or opening a cavily containing it.

The 3º Hage is where the force applied is to great as to austroy the life of the part while that him our durigit is in the 2° and 1º degrees. All the termines vary according to their vital power, comme quently some greats have a greater of visiting injurious causes them others as Cell. Memberigaments Lewdons Bones &c may be destroyed and newer, bloodupely muscle & their remain sound. Their also owing to the effect of the injury as were see that a force can be applied

very great it may course passers and no the in the blood is excited head from the me his charact was astrong the life of the part whole that manualinged is The 2° and I'll depres will the horse lang hounds

capable of breaking a bone without injuring the other parts. The fame is the case in wind watersions where the whole of the intern at structure is distroyed while the notional remains found. The degree of injury does not depend supply on the degree of vilat there, the but whom the structure also, as well as the manner in which it is applied. As the skin itself may be des troyed while the cell: munt: run ains down. But it is well to remember that deepseated parts are frequently distroyell pro during ab, cesses and gangrene without the superficial being at all injured. This often occurs to military surgeous. After the reaction has been out dued the Hough if reperficial with he thrown off without farther we lession but if deep- tested it will be in creas I in some as suffuration and Waration ment arise to detach the Min.

Treatment. The first dayou of contain selvin requires any care from the dayour as when it is mild souple frictions with the hair or dry flaund with the hair or dry flaund with the however it thought be devere me must ende avour to restore reaction by strumlating oritoments with the flesh bush, dry Hammel, brandy, vol. allali. When any of the enternal organs are injured or debut tated, with other respiration weak pulse & requires more their ties in a state of asphypica & requires more their ties me ans.

M n who be of the intern at direction is outrooned while ~ 1 defend tout by on the discussed while through which it is applied the the this will mi belong transcend, ability the parties Aria si Alekantin and War must arise to detack the Whi. Treatment. The fresh Progres of Enclose

the must here resort to the use of themali by the mouth, mostrills or rection, at the same time be very cartion, of therwise reaction may be to great us to increase the Tuff. As reaction comes on they must be on itted, and if the depression is not very great we thrate never resort to initiants and stimulants, but your altention must be princapally confined to the lemperature of the surface and always tatte care to present too great reaction.

The 22 degree of Continion is where in addition to the lemperature is solution of toutinuity.

functional disturbances there is solution of tout inmity. Hore a certain degree of Tuflam. is necessary for the restoration of the injured parts, and care must be latter Hat It day not be ours cand the at his time Stage. The Afrision of Levery or Languiners fluids in this tage timed Ecchymosis demands attention and may be heated of under 3 heads. At the must in deavour to arrest or moderate the efferion. 20 to facilitate the absorption 3- When this cannot be accomplished to remove it by an operation. In the 1st heditation where there is effusion of blood from the malicapideanies we must endeavour to happiers it by the use of Coo and as brungents lotions, they at by Univershing Vascular and nervous action. The water here with he bound very desteful, also the aut. Lead: Mur: ammonic fast of vinegar. Se. There must be assisted by rest elevated position, preserve, & not impreguently by T.S.

We must him more to the one of stronger by the month. motable in rection at the your trine in my continu extension under to be for the firmer than do ina clien server on they amont he are itted a D of the definition in not king specif by the the more work to intento and Amout outs hat your attentions timet to prin apolly unfind to the leasponding of the hispain and che says tathe can to present to your reaction is the " the degree of lortunia or when sie addition to the formation at this teast once or there is whiting of teatimently, The a certain degree of replaces is necessary for the res touting of the injured pools was sure wind to letter that is day not be town on the at his time theyo. I have offers in of severes or daing encious of hearts in this these brunks Ecologramid them on the attention die may be Wallet of in du is head of the next in dearner a kneed on some der who the effection I to he are bloke the absorption 3° When this commend in corn whole Emman it by an apparation to the 1st horist in anit in deavour to hippiness it by the one of and and astrongents lotions that ark by their wishing vertex and never seture ele contex here ente be berent very distiful, who the diech. Leit: Mur. Animen talk of vine year, Sec. I have mint be assisted by use blevation frontien pressure to not confuspenty by I. S.

creat of touturious and purgatives. After all the symptoms of hoflam have put, illed, the 2? in dication must be attempted; that is howmoting the absorbation of the flind if healt in quantity This may for the most part be fulfilled by they and Highty Homalating frictions, by rest elevated firstlin and pressure: this is particularly applied to the estremities but when it occurs in any of the literal organs as the brain, cavity of Thoras, Abdomen & me can do nothing more than unt to the autiphlogistic plane by which we enable the lymphatics to tatto up the plui d. 32 Sometimes however absorption dues hot take place, and it becomes the source of much ansity or by its increased efferior it causes pressure and inflam. impairing the functions. The mich eases we should no longer hund to abrouption, and in mediately remove it especicially if it be fluid or contained in a cyst or circumsonted cavity, at the same time bearing in mind the danger of opening bloody timos. Two methods for opening the Cavily containing the fluid have been proposed. Hunter and Physick recommend the opening to be very small & in an oblique direction as in chronic absures. The fluid shouts then be evacuated in a constant stream by pressure to as to prevent the admission of atmospheric air. If privible the whole of the contents thought evaluate and the sides brought into immeriate contact to as to enable them to emile by the 1st intention. If we should

as pringetimes after all the squaptions of haften have proposibled, the I'm discretion sounds he attended, that is former time the absorbation of the flower of bounds is could This may per the most push be fullationed the the plity the standarding finitions by not stanted forthe and pressure: This is practicularly applied which to the ex presenties had to her ill to the one in any of the tester it regard as the brains carily of Thomas deldone in Can do no thing more than usual to the histophly place by which we tout the the hypophatics to the touch the place of I done time however whoopfing day lette place and it become the owner of much andy in vierces of prince it can man presions as longs land to where plain , and similarlety willy it it he pland or contained in a copy or cincinnated ending she the form time bearing in mind the trans of expering blooky bromers has methods for exercise the bearing containing the flower how were preferred, There to and Physick recommend the thermy to be constructed & in an oblique direction as in chronic absences. being show then he ream atte in a regulant the by pressure to in the present the administration of an and the sides brought wite enable their to comit by the to interten you should

Aneced in evacuating the whole of the contents of the Acc, the nides with unite but Leveral operations are generally required. The 2 plan as recommented by looper Polestier to other course to in making a few incision and warmating the whole of the phila. When the whole of the internal surface with unite by the ashes. Fuflum, if it is brought into contact; but touchines suppuration and gram lations occur. The 1th plan is generally meferable particularly when the blood is flind and the risk by Sangrene and Fullam is much left. The 2? may some times be resorted to when the tumous is mall, or when the blood is coagulated and contained in a separate Cavity; even when this is the case we not infrequently have gangrenous Tuflam, in consequence of the contusion preventing the parts from uniting. Enther sow de however is improper when the blood is tetrated in the Meshes of the Cell: Membr: as the whole of it cannot be removed. In such cases we should not interfere with it unless it presses on some important organ, and then we must prepare ourselves to encounter violenthift am: & Jangrene, as It is about certain to be produced. When however from this or any other cause seven Tapan. has anisen the treatment is the same is that aheady spoken of under that head of, all that we have to do is to mo derate the symptoms and prevent gangeing abscesses if possible - of they have tothen place, make free

is in house in we seen along the whole of the contains here, the notes will comile hick devends speciations 1u J. generally required. The I flow as te con mater in of wrenoting the whole of the fluid the the as the internal purpose with winter by the when "affe au It is beaught into watered; but her dies to provide 4 and gram latin cours the It plan is gowald perceble particularly when the degree is find and the will by Sungrame and Takkam is denich loft. Whe I way to Ci times he asserted to when the himmer is mide or a the blood is congestrated, and instanced in a specia Carily was a him this is the cover in out infaired to have gang course buflow, in love some of the certain presenting the paids from conting with on the A simporper when the third is beingted in the Mostly of the calles Presides; or the whole of it cannot be Generaled in health carles are through not interferent the the untill the present on true emportant organ, and then are much prefered ourseline to concern to vice but an it has greated as it is a down to test was to be produced When however from this is day other since severe when has veryon the heatment in the dance Golden of meder that thead of all that

in air ion, and evacuate their contents. The 3° deque is to he treatest as Francatic Gangrene from any other cand. The 2d Droision of Hunter is where there is a solution of continuity with an external communication and as mentioned are termed Would. A women may be defined a solution of continuity, having an external opening, and in duced had dealy by a mechanical could. Hey are divided into trimple and complicated of simple wound is a tobetion of continuity his dutidly a clean cutting in trum wh in a healthy in dividual, and in an unimportant organ. On the court any it is said to be Complicated when made in an important organ, & where an artery, news, or bone is dwilled, or by it being made by a poisoned his burnet, and in a part that is diseased. The complication may also be awing to the general constitution being bad, from any actual or present disente, and according to the temper ament of the peticul, his i div syneraty & d. Norms are divided according to the manner in which they are inflicted and the Rind of nistruments by which they are produced, hence they are designated by the terms - maised. Punctured Lacerated, Contured, Poisoned & Linishot. Incised Wounds. When in a healthy in duridual or time, a division is made by a sharp clean intrument the fibres are knowly divided and should he other effect be produced and the part retain it power it is called a deinfole incided wound.

The Francisti Facoun from Hea are divided with bringthe and wright taked wh weined is a bolistion of continued from the trade a chercu cutting instrument in a healthy in divide at our inicapatent or an by the look are it is lad to be tion him who he series to the current britished device loss from sur actual or human Edishynericky to d. Mornis and kin ted advaduing with

The such cases there is an effusion of blood pain and a deparation of the lips of the wound. Me This hardly possible to punture the this even with a needle without wounding some of the capillaries and promoning stight hemorohage. If homever larger truits are divided the degree of him orthage with be much greater, in proportion to the size and importance of the versel: but this hetjech with he more fully discussed under the head of hem owhage, and at present we shell only over der it as pro anced by mall and inimprotant brunks. The 2.0 view which presents itself is that of pain. this seems to depend on the division of the minte ramification of the nerver while the degree is dependant on the strong the of the enjury, condition of the part, the manner of reflicition it, and the state of mind at the time. The 8 - is the deparation of the lips of the would, this in the first place depends on the form of the instrument and when it is wedgelike the separation is greater than of this x flat. 204 1th is owing to the elasticity of the hack which is defferent in different tersues. The Fellow ligaments of the back formers this property in a prest degree, also the Min, white the cellular member: is entricly without it. This of the tension of the part also has great influence on the deparation as muscles in a relanged state do not deparate as far as wheneverlender, Fourth, but the most contain and important Cause is dependent on the prower of the assues to contract

cap: Chavin at producing the old himselver. IT Carps the would : hit this helped we only come the la as his duri by he all all trunks. He I' view which proved that is ditty pa the first place defreed on the form to the windressed the their x plack 2 2 th is bring to the district

this is evident in a transverse awision of the muscles. This contractile power is found in a greater or less degree in every tissue of the body, unless perhaps the ossers, from this cause they are rendered more conspicuous in a stand living than in a dead body, and in young wout animals than in the od & abolitated buch therefore may be arridered the reasons why in is it would are undered patulous. When a very small meision has been made and not interfered with an efferior of blood latter plus and cloves up the opening by forming a deal which wecludes the atmospheric air: ather. Tifl: the tother place and the part unites by the first intention. When homenen from any cause the coagulum or Jech does not form and the hopen is not artificially protective from the air, I with som run on to defenvation followed by granulations and uniting by the 2º Tulention. The Those cases when the which only has been raised the deunded surface also influentes followed by a generation of new cuticle, but grann lations down occur as they as not necessary. Here a question arises Thy tuppuration is more oft to occur when a part is exported than when it is covered. From very externo free acceps in the other it has not, correquents it much defend on the air alone: but done physiologists buy that this is not the fact as they have injected air

Town or the holes unless miles miles harden that in a dead hady is the masons who in in it is no our or a into Different cavities inthout producing this effect. They els quote suphysema as a case directly opposed to this view. On the contrary we are disposed to believe from many lir cumstances that it is entriely owing to the writating properties of the air, for any part from which the enticle is removed as in borns &c. be supored to the air It in mediately produces pain and a great deal of mentrug: but if the part he protected this densation is not felt. Beddoes also confirms this opinion by his reperiment, he day, that if a park is eneposed to organ alone the effect are more Levere, and that no pain is fell when reposed to the effects of either hydrogen or mitrogen. It also Appears to produce it by rapidly removing the moisture. then hardening and drying the hurface, which is always a Course of writation. That in this way they are injurious may be proved by many arcums tances of exposure tothe of the berow and mucous duffaces, they from be come viri tated in coursequence. a suppression of the Lecretions take place. This is Leave in probabby citeri, vagina, sections When they are exposed for any length of true would hoplan. with tate place follower by opacity of the comea. If however there parts are Kept moish this constants exposed this effect is not produced. From this it is evited that the air is a structant, & the reason why it in-Juris Afrech are not manifest when expected into the cavities or diffused thro' the cellul: Men is: us in

moira Mound. who sufferent contris inthood producing this effect. In youte amphyseum as a case vinetly offend to the view. On the Contrary on an dispose to below for many his cum towers that it is entirely viving to the undating properties of the air, for any past from which the entirely is removed as in bornes to be represent to the sen The win mediately problemed praise can a great deal of links Truggi behalf the park he protected the despition is Jett. Weddoes also crepius this opinion by his whening he down that If a peak is espend to veryou about the effect are more severe, and that no pain is fell who inform bethe effects of wither hydropen or mingen. He down splitain to produce it by repribly semoning its montain this hard envir and draping the but surported is along a commet instation . That in this way they are injurie may be proved by many circums lances of response lother of the berow and over loved week they love be were con tated in County some a suppression of the beendown place this is been in pullippy their vagine beilied When they are enfrom for very brugth of him might hepren with tette place pollows by spirity it is of however the parts are tiefet mont the con with happened this appeal is not produced. I went this it is en that the air is a Summland of the reason who it the cavities or leffine the other class headown

employ sema, is that the secretions of the park Rufe there mont, besides which the air is only in very small quantites and not revewed, it therefore to be injurious much he allowed to ach freely on the duface. It Bow hoppores that it is also injurious by removing the natural text of the park and Lays that a certain degree is nearrang to the restoration and maintenance of the Levetion of the rigured part, but in consequence of the air having free access this is removed and the part becomes bry & had. Often in deep seated warmeds the air acts only on the lips, & yet the whole internal huhace of the would is in a ttate of high hell: This is owing to the heflan. threading from the reternal orifice by continuous sym pathy or with am. as in chronice abscesses. The Knugers arining from trimple wised wounds are very few; unless they are very intensive (then a shock is given to the whole system, as in extrapating large timous or bady treated, or the patient is very weak. Treatment. The indication here are frish & remove any foreign or wetraneous matter. 20 Dendearour to produce union by the 1th Thaten. by placing the lips in walact. 3 to retain them to by proper means. It to regulate the degree of Teflam. 1the The wound is made by a clean instrument them is bettom any extrancon, matter to be removed but occasionally it is covered with dish or some irritating

Leader of this et. Mumb. embles seeme in that the bisist was to the The air is only in very dear Wiener It Thruton the light & well the whole interest halon tette gaderigh high This Muchding from Com, as in chronice abreions, The arising from hingh to write warmen and very fee Treatment. hapen much at the dependent

dremings: it should be then washed entil it is removed. Many of our modern buyeous couri du blood as a foreign substance, but eler Hereter was of opinion that union conto not tatte place without it. It present however this view of the Subject is nearly disney as ded, but how physiologish speak of emin by viosentation & the they do not universally alloth the opinion they the believe it bometimes necessary As a general rule blood is to be couri dered as a foreign bebstance, and went be removed by washing in every instances Hounds made by glass are couri dired as in isederands here great warhing and altention is necessary to remove all the little fried or spicele but from the rethere defficulty of doing this most surgeons advise it to be treated as common supportative The am. In following the 20 morcation a question has arisen as to the propriets and probable recess of bringing together the divides portures when they have been enterely deparated from their connection with the other part of the body as the fringers, ears. nonde. but cakes of mecels have doubtful. Parts therefore that are met detache of not too large, two much mutilated or contused the who immediately be reapplied, and even parts that are laye may be sometime, recovered probiled they are completely that ache. The The huyeous evere in the habit of cutting them away, that that their pride was wrong

break of midel Hound. sur mother buy in , course the third as a for lack oler Herrita was land not take place without it . It process view of the bulged is made diences as that ; but speak of moin by mine fation by the the the no alough the opinion this the deliese it howatimes to a general rule thood in to be court thee to be there and week the territies by toisting to a from of made by glass are countless as it will all the lette le privat bufficulty of Howing this much hurgarens a direct the the I's movietion a question has assume on to was probable process of to finger, and, now be, but therefore that one though insmediation be deaphilio, and come hand for others decreased historial this culture them away that that their broken

is proved by too many well attestico facts at present on record. There facts have given rive to what is termed the Valiacotion operation which consists in dissecting up a Hap of this either from the forchead or arm, and applying it to the home which is previously searified after union takes place it is to be completely netached and properly slape, of tato years it has been frequently resoled to in other parts of the body as the mouth, and particularly when a postion of the wrether has been removed. I The 3 invication is after having vrought the parts into contact is to retarm them in their proper position by Abesive Maister, Suit behines Bandages & Splints. 1th of Vosition. This is to facilitate approvenation and present a deparation of the lips of the wound. At a general rule this is to be done by relaxing the museles and Min it the avision is other oblique or transverse. If on the contrary the wound is longthe dinal the indication is test followed by Reeping them tense. 22 after a proper position is 06 tained we must employ devitable dressings for the purpose of welling the air and to bring the bank more in to contact. This is to be done by facilitating the coagulation of the blood to form a real. Cooper here recommends the dipping of Luck into the blood and applying it over the orifice This evagulates and forms an artificial scab which excludes the air A also dries and contract, by which it approximates

Here forth from going rive to to hate in learned the Valice thereting which comists in directing who ship of this which is preserved descriping after environ takes below it is to be completely totaled and properly slaped by take year it has been stropmenthy ainted to in other parts of the boly as the mouth, and portradaly when & police of in their proper projection by at I having Mainter Smith the life of the training the agence who this to to how by delaring the minute and this it the Murdin is other others. or Francisco, He with without weeked to down the thing is the in the follower president it were daily the air one to bright the tour me in to contact this is to be there for facilities bear received the depline of him 

the edges stile closer. In this way we are able to connect a wanie with an external opening into one without it. This plan of seathing may occasionally be assisted by art as by the application of Court. Plaster, Gold Beater Min &c Thirdly this method of scalbing with not always auswer particularly in large wounds and where there is a loss of Subtance: here we must result to ashesive plasters & sutures, both my and bloody generally adher plus as producing les vertetion is preferable to dutins; In tou Cases however they are necessary us in pendulous portion. but if we can do without them, we must. The Litt method is by means of compresses and Bandages. In the headment of muised wounds, the application of ban. dages for the purpose of Reeping the parts in contact is of the greatest importance, so much so that they have been recommended by Louis and other Angeons as a substitute for wher. Plasters and Valines even in Maces where then has been a loss of substance. By them also me are enabled to hipport the whole lind, and arrest the sparmo die contraction of the divided muscles, they preventing the parts from being thrown out of their Tituetion; they also arrest the effersion of blood from the Bunk werels. 5th The application of explints is very useful to Reep the part at rest and the parts in lortact. The Profession is indebted to D? Shynich for from into ducing them, as by their use dubinthus Tentinum

123 between both my and shoods generally while play, play pro ducing lets undlation is presposable to dulum; 

and other Tetanic symptoms are often prevented After employing there me ans, these case must be left to chature, and all the surgeon can do is to regulate the degree of Inflam and Lee that it is weither too weak nor too though If too weath coagulable lymph is not thrown out in sufficient quantities and coursequently union will not take place : if too shong it with transcend the at his. Tuffam, and um on to duppuration. Generally it is too great and must be moderated on the common plan by too and repellant remedial, rest elevated position, general and local bluding, the removal of all prenue as tight bandages splints se but above all Rup the parts cool der Cooper makes a umante on this bubjech which is very important to the hugeon: "he days that the great fault of all practitioners in " performing ampulations is that they enclose the partin " too many dreverings by which they present the other. To Have. "It after Blacing the Map, and been viny it by wher that's "they cover it with link, over which some virtement is "thurly spread, need a pleaged of town followedly one or "two other bandages which very much increase the lein. "Sevature of the part, by which the blood is determined "to it and supportation in duced". In this way then were endeavour to promote union by the 1th intention. Tenerally if no impleasant dynaptous arise the dres-Tings thout with be enterfered with before the 8, 4th or 5th day in summer; and a longer period in toruter

the many the case must be left to chetury and turgen can the is to regulate the theorem within no it is sellten too wealt him to thing If to wealt loagularly lyuth is not throw out in hips and consequently seven with took to be before if too dray the with to me come the astrony to place and come of to day in the common place by tell into which in a tenedial rest the alet position I down at and local bushing the levery al 4 alk brunais in tall bound for Talist Us his along or this hipport which is my interdest to the huger. he days that the great faith is all grantitioning to many dreaming by which they prisoned the alien "the after placeing the Make you becoming it by a has that think thread, nearly a pleasant of two first miles on or " peretien of the park by which the blood of termined Dear out to plan to some he the the sular

at which time the edges with mostly he found emited:

tometime, the union is only partial and runs on to

appearation. It is here to be treated on the common horizonthe.

Punctured Wounds are neit in frequency to invited & courist in the rigury being wifte ted by short, narrow pointett instruments as pris, needly, Mirls, bayones &c. Their peculiarities are awing to Leveral causes, 1th The direction of the would, the they often appear tripling with a small, contracted sed or live & villice, this are of great importance and thous always he attended to and watched with the greatest courting as frequently they are attended with injury of the arteries, never viscore and els of the Con ities: Then they enter the cavities they are termed penelrating, but there are complicated I thall consider here after: atte at present confining mysert only to printing wounds where no important hach is injured. The 2° is the manner in which the fibres are devilled They Differ from incised warmeds not only in the direction but in the manner in which they are inflicted: as the instrument by which it is done is generally of a we age little of comical form, sharp only at it points. On this account the fibres of the part are very much Contured and lacerated; here we may say, the more Conical the instrument and the more rapid its progress thro'the part the greater the danger: These distinctions

tourstime, the cenin is only postial in my on to Vunctured Mounds on new hopeny to inces by counist in the injury him, withouted by things recommended let instrument is prin, medles, thirthe, buyone to their pearline on owing to down a caused the the direction the would the this ofter appear tripling with it brush contracted the or how to wife in this was of quart in porter and thous through he after that to and waterless with the gratust continue on programmed this are other and with ingray of the interior areas wiscon and who of the Constitut they enter the contrast thing are term as pendenting but there are complicated I that with hurster: after at present continuing import only to printed in the winds when no infinited forten injust. The D'is the mount in which the files in the files They Wiffer from invite assump and only in the land but in the morning in which they are inflicted in the tris burness he had which it is deen in possession of a mede lette of coniced form that out at to beach by this account the fiber of the park are very much Continue of and he car ated; home no oney veg, the more arrical the intermed and the more lapid to my the the post the grader the danger These detention

are of great importance and thouts be remembered by the practitioner. Owing to the contusion and loss of power in the front union by the first intention seldon tally place; while supporation and Sangrene are of common occurrenced. From the form of the women, any flind effusion by the west does not necessant, find its way out. The inflam: attending is often very great to much to that gangrerous absences aire which continue to enlarge until art ficially arrested. In some cases the pain &c is very much aggravated by heining loufined em der fascia; it is also aggranuated in some cases by the presence of notraneous matter as dist, prices of clothing to These circumstances above are alreguate to account for the violent constitutional by uplows that occur: thus after a wound from a bayout, this' it duy not penetrate important parts the tystem in medialety Sinks and the patient is found pale, thivening & prostatell. After a while however reaction takes place, which is often to violent as to cause Kinth. There is also and the danger to be apprehended in nervous temperaments, or in those whose constitution is rendered irritable from warm weather, amerity, previous diseases &. viz convulsion, bubsulles Tendrium, Tet ams oc. all of Which are very aph to occur particularly in warm areather or hos chinales, and are often met with in military life. The degree of danger wrises the from the manner in which the rigury is inflicted, its deque, extent to

the Me and the hadet is how hade their things

Treat: of Punctured Wounds. also according to the part injured as tendous, fascise ligaments the but all of there are much overrated. Treatment. The surgeon should at once from his andbounced Brawleage, Know the extent of the wound, its nature and line and endewour to form som idea what pasts are injured, he this he will be assisted by oceasion at symptom; but he must never introduce a probe to ascertain this unrecessarily, or without good reason to suspect the presence of foreign bosies, or embels they are superficial, for if deep, it must never be attempted, and then it must be done with the greatest contion, as It is for etimes productive of fatal consequences by the peobe prenetrating enteries is other important parts. Also in removing the coagula of blood & Their win are generally preparable, in extracting foreign to dies to probes & foreign as they prounce comparatively but little irritation: beridy Sich the part generally heads by the 1th intention, In promote this errior At parts should be brot into contact, as soon as the Substance is extracted and Rept to by the proper means. We thout then endeavour I mo derute the in flam: by general and local thedies beeches, coto particularly purging, rest's elevated position When there is much pair without arterial excitement, Opinon must be freely given. Some surgeous enstead of using cood resort to warm application, they may sometimes prove useful, but they are generally dangerous

as they cause a determination of blood to the park and in crease the danger of gangrene and mortification, By buch means we are generally enabled to produce a cure? but thouth local Inflam: lathe place under the fascise he we must make an invision in it transacersely as regards the direction of the fibres, in order to relieve the lusion, of the parts which is very great and thus we present gangrend. When suppuration is about to occur and cannot be prevented we though assist it by the application of warm poultices and formentation, bother orifice. When has formy evacuate it by free incisions and of Gangrene occurs, heat it as recommended in other cases. The antiphlogistic heatment is not to he depended on in all cases, as it with depend whom the constitution, deason of the year &c. To prevent Tetains lowersions the we should direct the patient to avoid all fatigue, ereposure to the night air: at the James time give him a generous and nourishing diet, assis ted by the use of stimuli & Tomis as Wine, Opium Porter Or. The use of when at etimuli is also useful; Dr Physich recommends the application of a knapism or blister to the injure park and afternais to be thered with Hentishes outment or hot spirits of Printpentine. Strong Brine is used in the W. Indies and it is daid with great adventage: but above all try Lunar Courtie as nothing is to effectual. Cooper recommends Netric

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acid. Should all then fail we must lay you the wound in The whole extent. Dr. Plugar A mecuated in arresting two cases of Telanus in this way. The mich cases we prevent letarus, but after it has occurred, wiste and of being bene fitted by local applications, it is always aggravated. The treatment here must be entirely me dical, the best reme dies are wine and opinion. Larrey mentions a case in which ampertation was necessful, this is doubted by mony to have been a true case of tetamis: as in following the practice the patients have invariably Jerished under the Brigo: The use of Asmalaults has been very much abused here. Why they should be to useful in preventing Letarus, I cannot say perhaps by Counter Tritation. Fraision thout not be indiscriminately used in all cases: this they are very useful in preventing Totames lathing up bluding wesself, removing wetrancous bodies; relecting tension, removing stoups, aming fisted & D. Contused Wounds are those in which a Whitin of continuity is made by hand, blunt & obline bodies: the fibres vistead of being dwilled as by cutting instruments are torn asem der. a a cerution & toutusions are both present when the parts are rigured to a certain degree, and they resemble each other very much, and require the Lame treatment. All the observations I mude respecting contusion, are applicable here, as there is a Inspension of the functions of the part, and sometimes

Contissed Hound.

complicated with death, hence they have been diviled and treated of huller I heads: 1th When the terrounding parts are only briesed. 2? When the part is actually R'Med, this last in Suches Gunshot Warmeds, which are merely contained wounds accompanied by death of the part. 1" Of ordinary contured wounds when no part is Killia. This is unimportant when the contusion is slight: but if the functions of the part though distrose and the reaction be too great for the strugth of the part. adhes: inflam: with not tathe place, and in fach we are not to repect it the it sometimes does, but this is rare: granulations are throw out and union by the 22 intention generally occurs. When they are very extensive and great they transcend the supporative stage, and terminate in Saugrene which the it may with he seen at the first dresting with be found at the 2? The the contision is mo therate union by the 1th intention may occur at the bottom of the wound, which is generally less injued with while the lips slough away, There is but thight hemorrhage in such cases at first, even when laye arteries are duri del. The dangers attending on there injuries are great, & arise It's from the should the nervous bystem has received, manie fertete by cod, a disposition to sleep, weath goulde Coma &c. 20 From the violence of the subsequent hell. Carried violent fever and from the profuse supportion and the liability to terminate in Sangrene 3 - From

130 and hearten of touther I heady to When the huncondicion put on oil burges. 20 When the part is actually William, this hast in ductes Senoted Mounds, it his on marchy continued wounds accompanied by weath of the park 1st By orthorn my continued warmed when no part is the the id. This is invested when the tenturing is whight; but if the founding of the part those he destroyed as the desition he too qual for the straight of the parts white wift amo with with file place, and in fact we are not to support it the it her chies down but this is usus: granulations up throw , at our wine by the it intention quantly occurs. When they are very extension and creek the which the it may not be dear at the freeh places , when be found at the 29 The the contrain is no theat min lay the It intention may seem at the bottom of the would which is given also the light with with which the light early the frist, two when though activity are this the The Clauses attending on them so wine are proch to some the from the should the movies system has terrising man

Letames which is very liable to occur in warm chinates hot weather and but constitution so.

Treatment of contared wounds is to governed by the principles to often laid down. He must remove all cretranevry matter by frely was hing, at the Same time we should reapply the parts as nearly as possible in their former tetration, to that a part at least may timbe by the first intention. This applies particularly to Laurated Horms, by this the hoppurating hurface with be ainimished. After the parts have been applied they should be left in their detretion by one or two strips of aches. Haster Care being taken that no force or pussue is used, otherwise we that have Levere diflam: and its consequenced l'are thout who be taken not to bring the life into direch Contact, but always leave a small space between as they be come very much hvollen, and Sayrene would occur from the hicles frussing against each other. For this reason, dutures are not to be ased, as they will Cause great pair, bever be and give use to englipeles. effler the parts are adjusted and the strips put on a mile light plaster, thout he placed over them for the purpose of Ruping the parts moist the however the contession is very great an emollient from their should be applied, to facilitate the suppuration, this should he continued until it tetter place which will generally be in 24 or 36 hours. After this, light dressings should

were the and he contitution be . -Then mill of fortured points is to previous to yes there weathful the few to as swordy to your former tetraction to that a part at least nay less the finite intentioned his applies particulable to it can have taken that he fine or pare is come other I how a he in the first to doing the life in to least fortall, but always leave a sparle span before as the become time time he healter , win Surgeon and offer the paint are adjusted and the stock fresh part on a in I A is 3 to horing, explore this, light propries then

be used, duch as with promote granulations and union by the 2? Intention. Professors extraline & Boyor oppose the employment of poutrices to contused wounds, and Lay that they should never be used, as they invite the blood to the part and increase the secretions which always end in deppuration. The former of these Sent lethen uses cold applicating white the latter employs astrongents. However poutties always moller ate enflam: by increasing the teartions; and re pellants by diministing the quantity of blow in the part. Hence we see, both are mecessful, and either plan must be employed in preference to the other in certain cases. As when it is thight and attended by an effusion of blood the repellants are the people seme dial. But where there is much contusion porthers thoute be employed at once. Sometimes however they may be combined, and while posties are applied to the onfice or lips, repellants should be resorted to who the cir comperence. In all cases Care must be taken not to employ Eolo during the depressed states of the system or when there is chillings; but allay it until reaction takes place. Should the Tollami continue severe and Jangrene la Musterier; the whole part thous be enveloped in a blister as has been formerly recommended of

Treature Obelation Hollouds ... for your wind the Me the end layeren to of postions to contrase the wounder without the Courties every love ; nother smally I berner bleving moderate wifelaw, by in auxing the least ind, peleoute by their unishing the impatitions, there is the Here we see the forth an insulfed, and iddingly mind for and loss in pullarion to the other in nation cared with when it is thight and out eached by our effection of the the reportant on the proper unit last when turion fronthers thronds be differed done throughour protection and applied to the wipie or life what throw he winted to ab the all consispensally the se Chropasses Stokes If the top time but sular it intil resition take place whose I in contrains have and fangemen be then here to but though he enveloped in a thister is is garmenty ne commended if

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Gunshot Wounds. The 2nd degree of contused wounds is ruhere a portion of the part is actually killed from the force of the projected body; This is generally, caused by, oun- powder: These were formerly considered as something peculiar or specific & consequently the treatment was complicated, but since Heunter's time it has been much simplified & Lurgeons now deny cery difference except in the instrument with which it is produced & the velocity with which it passes thro' the part injured. I shall confine myself at present to those produced by a common musket or pistol in soft parts. These wounds differ so much in appearance that hardly any two resemble each other. On ordinary Cases Jays Hennen rue have an orifice corres ponding in sine to the bullet when it entered the edges of which are inverted & of a livid & discoloured appearance; if the ball has passed out, there is another orifice which is larger, less livid, more lacrated & with the lips protructing. Those injuries are attended with very little hoemowhave or pain unless a large artery or normans trunk is divided & indeed for some time after he only complains of a sensation of weight in the port a wound thus made may be compared to a hole or canul, the provides of which are in different states, the internal larger against which the ball has directly paped is willed, the

Yun That Hounds next is lacerated & contused while the third is in the first degree or simple state of contusion, with a suspension of its functions &c. The constitutional symptoms are very dangerous arising from the violence of the shock prostructing the system, they have some times been so doingerous & preculiar that same surgeous have supposed them to be poisoned. We find the patient trembling, with a sensation of sinking within, he become deadly pale with face yellow; profuse perspiration breaks out with a failing pulse & in some cases there is incepant wounting. On this state of cultapse the partient some times dies. Generally, however, reaction tockers place - Jun shot rounds differ from punctured & others in their direction & depth as some times they pass entirely round the body & by having a slough formed throughout the whole extent of the wound; They also differ from each other in several particular, 1. according to the kind of body projected; 2nd its velocity. Ind The norture & preculiarities of the part injured . - 1st The kind of body projected 1Dodies of almost every variety of form are occasionally thrown from large giens, bullets are the most common but wontras may be proclaced by ballets of wood, broken is heels, nows,

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Gun Shot Wounds

on board ships especially by splinters which fly from shattered boards; some times also they are complicated by pieces of money, clothes, hey so ther substances contained in the pockets, being driven in. It is obvious that bodies of an irregular figure must occasion more injury than such as are externally smooth; of a rounded form smoderate size, hence the more they are complicated the greater the danger;

Ind The relocity of the body is the chiefcourse as by a law of projectiles, the greater the velocity the greater the force with rehich it infringes on the surface, as a musket ball passing with great velocity will cause much greater injury than when mearly spent; For this reason the slough is much greater at is entrance than at its exist, To also when it strikes a bone; if its velocity is great it prafees through without splintering it, but if it is diminished it is turned off by it & only a portion of it will be killed. The rayged & contused condition of the parts where the balls paper out is not so much owing to its velocity as to the circumstance of its passing from a dense into a rare medium; also whowils velocity is great it profes directly thro the limb but if it is nearly spent, it may glance from it at an angle if it strikes above & go out in directly a different

Gun That Wounds. direction from that at which it entered giving rise to the appearance of its having passed through the body - Some times the resistance of legan ents, tendons, fascia skin & are alone sufficient to turn the course of the ball if nearly opine. When the ball paper in this way under the skin, its course may be traced by a dusky or livid line & a tumor corresponding with the size of the ball may be seen, When a ball is moving slowly it may strikes the skin is pass off without injury. ing the integements in the least but the yourts under the skin muy be completely disorganised & a solution of continuity take place with rupture of vefiels 8° . When such contusions are received over vital organs, death is the immediate consequence, This was formerly supposed to arrise from the violent commution of the air produced by the velocity of the ball, hence called Wind Contusions. The 3rd Cause arises from the nature & precolianties of the part injurides as parts of little importance may be alone injured or at the Same time a large artery, nerve or some important viscus may be injured - - These therefore are the nature & preculiarities of 5mm - Shot wounds .

Gun Shat Wounds The sloughs generally enlarge by the gangresions inflam & extend into the surrounding parts, They will also aggrounted by the presence of the foreign bodies, prefine of facia & cowhich increase the inflammation & finalby alceration occurs for the purpose of evacuating the on our Trognosis we should be exceedingly careful as some times large blood vefiels are contined & there appears to be no injury but in a few days a slough ensues & secondary hoemorage takes place; at other times various parts of the viscera may be injured & the Jurgeon not be able to detect it till it sloughs this with various other circumstances as constitution of the patient. season of the year; temperaments liability to tetamus &c render the prognosis very difficult. TREAT MENT. of Sun shot revounds, which have occurred in an extremity is to determine whether the limbe can be saved or not,

The first thing that present itself in the treatment of Gen shot avounds, which have occurred in an extremit is to determine whether the limb can be saved or not, but this depends upon so many circumstances, nature & extent of injury as constitution; season of the year; habits of the patients &c, that it is hardly possible for us to decide, but it is sufficient for as to say that when it is attended by a laceration of large recrues; blood nefels, & bones doft parts & when large joints are opened we must amputate fracticularly if the bone

Cheat: of Gunshal avounds is shallered & in the neigh bourhood of a joint, many other circumstances will even when the injury is not so great; induce us to operate; as a want of proper accomodation; attendance rest & particularly in battles on board ships Be also when a part of the limbe is carried away it is necessary to amputate as by so doing we have a smooth clean surface in the place of a rayyed & uneven one; This makes the limb much more valuable afterwards, When unifruitation has been decided on the proper time for performing it will be as soon as reaction has taken place & always before inflammation has occurred or any constitutional symptomis manifested or before a disposition to gangrene has commenced in the limb, That this is necessary is proved by several circumstances; 1the patient is more willing immediately after the accident for by confine. ment & suffering he becomes weak & nerown; 2nd a simple incised wound is substituted for a dreadful contased veregular & sloughy & lacurated one, which puts his life in great peril. 3rd The aggregate amount of suffering is far less then that arising from a long & tedious confinement from the inflam - & irritation caused by foreign bodie, spicula of bone &! with the inciscois

dreat: of Funchal wounds for their removal which must be the care when efforts are made to save the limb; besides which the propuse discharge of matter will weaken & jew pardise the patient life & Ath The fratient will not only suffer less but his chance of recovery is much greater or few hours after the accident than when whom out by suffering, 5the escape with life, the limb from being shattered & deformed instead of being of service will be a burden to him of not half so useful as an artificial one is after all he well sometimes have to submit to an operation. When the injury is of les importance or situated on the brunks the indication will be It to remove forcign bodies. Ind To prevent involvinale inflown ", god Vo regulate the degree of suft"; & 4th facilate the discharge of fus. 1. The experience primes that the porcible extraction of foreign bodies produces much greater injury from the irritation pro duced by proles, forceps &c, than that caused by suffering the ball or other body to remain it being in contact only with dead fronts & finally becomes encysted particularly butters & ruise remain years, in endeavouring to extract then rejury is often done to arteries & when imposs

Treat: of Gunshae Wounds. furts; for these reasons the surgeon is much les anseions for the removal of foreign budies in your hat rounds than in others if however it is near the surface, an incision should be made & the parts then head more readily It will also be very necessary to remove them when it impedes the functions of any important frant as the brain & Incisions may also be necespary for securing large blood nepel. or to remove oplinters of bone & to return any of the viscera when they probinde, but the practice recommended by Boyer & other of resorting to incisions in all arm shot wounds with a view of changing the nature of the would is wrong as this commat be done unless the dead parts are removed nor can they have any effect in relieving tension as they direct the wound to be filled with lint afterward by which the inflame is always aggravated & as a general reule incisions are only to be resorted to owhen some obnions & decided advantage is to be gained; But when this is to be decided whom ( for the method of doing it Irefer you to Dr Harris) Do not forget the coution necessary in proving Long & deep rounds large & blunt proles are preferable;

Freat of Gunshar Wounder Bougies & Cathethers have some times been used for this purpose. The drefrings are to be selected according to the common plan of treatment suppur ation must ensue - therefore warm poultices should be applied. I could drepping on a field of battle of white cerate & achesive stroops must be used so as to se cure them. applications should be made if profible to the whole track of the revend & repellants used for it. Second. To prevent too great inflown. We must here resort to the cold & astringent applications as Jacch: Saturn: Doyers recommends a solution of salt & after inflam: has occurred are must endeavour to prevent its running into gangrene; by the continuance of cold & astringent applications at the circumperence; While at the same time we encourage the suppuration at the several orifices; some times also que are enabled to prevent these symptoms; by relieving the tension & at the same time evacuating the matter; cups & Leecher are some times useful & in some cases the inflamm: is so violent that it require the whole of our antiphlogistic plan; hence the danger arising from immersing the limber in hot poultices & . The suppuration & sloughs tube place about 142 Oreat: of Tunshat Mounds on the 10th day - When small these awards may be easily cured; but, some times in consequence of the extent of the round & the nature of its cavity the pur cannot have a regular outlet & in consequence a firtula will be formed; This much be treated by incisions &c. in the tract of the ownered as former, by mentioned & Glough. of legaments & spic: of bone often keep the avoind when The General freatment is to be conducted on the common plan, first one are to induce reaction by the use of structi, on mine & c, afristed by the use of strumbe; as wine to afristed by the use of warm enemator & as soon as it takes place the antiphlogestic course much be resorted to contron is however necessary in the use of the lancet, particularly in hoe climates S' in warm weather as me will resider the spatient liable to tetanus. We should also be careful nut to reduce his strength too much as he has a long time to suffer. . The use of emetics & purgatives are useful & particularly in soldiers, whose irrigular habits injure the chy baparetic vissura francis depletion.

143 Foisoned Wounds. POISONED WORNDS have been divided into 3 hinds, Unimal; Vegetable & mineral; The vegetable are very numerous & compose many of our medical agents as Strichnine, Oping &c; but at present it is confined to those which produce a direct effect upon the skin; The numeral are also very numerous but not so much so as the regitable these are arrenic, corrosine sublimate de. The animal poisons are produced by wasps, bees, Inakes, & other animals & they are either healthy or morbid -Healthy poisons are the natural secretions of the animal while the morbid are the result of discased secretions & never exist in a healthy state: Juch as small prox; itch, raccine; poison from the viper, rabid animals, awards in dissection &c -Torsons all operate in one or two mays, they either produce local irritation, or a general affection by a direct empire sion whom the general system, The I ting of a bee or week will only cause a local affection & no further effect; but if he is strong by a number; a general fever is induced, If however Fricknine is introduced into the skin, no local effect is produced, but the general symptom will soon carry wiff the patient. hence the best division will be into local or general. 1. Local diffection is attended by

Torong Wounds Freatment &by very great poin & as it is probable that aft of them produce different phenomena it uncefary to go into detail it is of much more importance to observe that it is in some cases circumscribed as that produced by a wasp, beet? & some times diffused & of an erysipolatous kind as that produced by poison vine; In some cases it is confined to the cellular tifsue without affecting the skin such as that produced by snukes so also with the wounds received in diffecting dead bodies, here some times a single puncture from a needle will cause the most violent effects if the parts are bound down by fascial and they are more donngerous whether it arises from any poisonous effect which is produced by the body or from the local inritation it is still undetermined; however in such cases the local inflam is always

TREATIMENT. This is to be conducted on the common principle laid down in all local inflam" at once endeavour to moderate it. Those inflam" Caused by the bites of neurons insects, bees, hourts, reasps V.

very great & confined particularly to the

145 freatment of Local effects of stimule; as broundy, tempentine, corresive sublim. ate, Jugar of lead, hurtshown & olive vil mixed &? When from a number of these insects it assume amore serious character; V. I, purging & the antiphlogistic plan generally will be required; Those received in defecting we to be treated as I shall hereafter mention; When typhoid symptones cirise we much resort to the free use of stimuli internally . The General effects caused by paison are those which affect the system generally & are attended by much pain with or without pewer, as stricknine introduced into the system will produce little or no inflam. nor any local affection but will cause violent spann & converts ion, also the hydro-cyanic acid which causes immediate death; to also the bites of some of the vipers before local affection can take place; death is produced, but there are some others such as small pose were that will be downant for a lang time & will finally produce constitutional symptoms I a change in the system so as to prevent it attacking the same forsan times; so also the poison of a rabid animal will be does ant in the body for 30 or 410 days

Teneral Effects of Jois: Wounds & will then produce hydropholin, to these may be added affections arising from which often causes the most violent symptoms & death particularly in England & Irreland, here a question presents itself which if papieble should be determined whether the affection wesses from sympath ? or is there an absorption of poison? many say that there is no poison, also orbeds as it cannot be found in the blood. also that it often wises from bodies that are not putied but sound & that it seldom occurs except in those persons whose systems are irritable. Thence the affection is referred to some preculiarities of individual constitution, thro is also confirmed by the fact of several diffecting the same subject being injured while some will be dangerously affected & even die, the others will not manifest the sleighters symptom, on the other hand it is us yed that it dues occur in person, whose constitutions are sound I that other myuries will not produce it Local affections are also met with in other & distant parts from where the injury was received

freat of General Effects of Toisoned Wounds showing that there is a poisonous agent floating in the system, but the constitutional symptoms are mort severe; as to the mode of operation of certain poisons as apiem, strycknine 30 the same question has arisin, whether its effects are produced by sympachy or whether they are taken into the system? Without entering into a discrepsion of the question; I will merely day that some seem to operate by sympathy while others are absorbed; & hence it will always be the safers plan to consider their effects as arising from absorption & to treat them accordingly. I REATNIENT . - The practical indication here is to prevent the absorption of poison. for this purpose several methods have been resorted to; one of the oldert is the application of a ligature tightly drawn around the limb so as to prevent the venous & absorbent circulation; but this can only serve as a temporary measure till more permanent can be employed; abbution or ownshing out the part is very ancient, This is to be accomplished by allowing a stream of reader to run whom the revound - by thus. a considerable portion of poisonous matter may be removed, but it cannot be expected that all will be washed away; Another method is to

some wand into the bottom of subject a portion of the same substance was applied a cup was then applied directly over the scat of the poison & had the offect of suspending its action. If even stricknine is applied to convulsions produced the applications of a cup

Treat: of Toisoned Wounds. will prevent its effects; Barry supposed that it was entirely vering to the vacuum preventing absorption but De Tennock har lately shown that it wrises from the viritation or prefuse coured by the edges of the cup hence it was supposed that weights would answer - The first effect of the replication of the cufe is to remove a pour of the blood with which a portion of the poison is extracted, they also injure the structure of the part by which the absorption is prevented from going on. After the application of the cups no abs orption take place nor any constitutional symptoms for several hours, so that other means more certain may be had recourse to viva: courtic & excision. The advantages supposed to be derived from the actual or potential cantery is that it may destroy the frant & cause a slough with which the spoison will come away, but this is not sufe as it may extend further than the slough or may present with it & produce dangerous Effects therefore musion is preferable to the use of courties, for when they are used we must keep the revend suppuration for 30 or 40 days, of all the courties owhen they are used the actual countery is the best. Isoger recommends the butter of Antimony to be

Creat; of poisoned allumnds to be employed all over the around & some times it is necessary to enlarge the round for this presse with a bistowny. After this a blister should be applied over the whole surface & kept dischary. ing for a considerable length of time; Hence we at once see the necessity of encision; but some will not submit to it & only in such cases are we to resort to the use of caustic as the prosess is by far too tedevies & painful. - Excisions much always be pereperied in bites from rabid animals here Dr. Physick has laid down some very important rules by which the surgeon is to be governed; he first directs an apistant to remove the patient's clothes is to wash the part repeatedly with strong lie or soup & water every time with a fresh basin of mater & towel, This is to be done by an afristant for if done by the surgeons he might get some of the salivier on his hands & in operation introduce it into the revend, The incision should extend at least 1/4 of an inch from the side of the bite into the sounds parts. If there should be severa roounds they should all be treated in the same way & if the limb is much lacer wited it must be amputated as we cannot trust the excisions in such cases for many of the counds may escape observation; on this account rubin the

Oreat: of prisoned Munds. injury has been received on the head be careful to remove all the hoir otherwise they cannot be seen; In some cases all of the means mentioned may be resorted to via free ablution, Cups, excision, & after this the cups may be reaplied as they will be useful in drawing blood from the avounds; then Boyer recommends caustic & lastly the wound must be drefred to exclude the air. The Internal remedies employed for the bite of the viper are numerous & all of them stringli as ay: ammonia: Spts of complor Se The internal treatment has been les successful; arsenie is much used in the west indies & is the principle ingredient in the pill so highly extalled for the purpose; Howler's solution has been much used in doses of zj at the same time friction must be employed on the point with the following liminant. My ag: ammon: 3h Spt: Forebeath 31 Ol. Oliva 31. - My. The remedies in hydrophabia are almost all preventure; eseperience fruint out to us the excision of the cicatrix even much after the injury has occurred & itis said to be marly always suecefful. Dr Physick met with two cones of individuals who were litter by the same day six weeks after the accident one of them died

152 Meers. of hydropholia; the other became allamed & had the cicatrise esetispated after which no unpleasant symptom occurred; but this is only negative proof. Ulcers . These are the result of alceration inflammation & may be defined a solution of continuity with a puralent discharge, Suppurating surfaces are to be distinguished from there as in the application of blistens on the muchous membrane as they are also suppurating surfaces, to be an after there must be a salution of continuity; They are dependant on many circumstances as local injuries afany kind; they are also dependant on the general dystem as in fewers; derangement of the viscera; specific diseases & bad constitution, in such cases the slighters injury well course the ulceration inflam" to take place here however we confine ourselves to the consideration of those that occur in a healthy part & sound constitution, me have supporation; granulation, contraction & cicaltization as a consequence the four is here called landable or healthy, there wheels may be known by the granulations, being small conical, & florid, with a disposition to unite & contract, no frain & sorenife in them, but

Instable when .

sensible to the slightest touch.

The TREATMENT. of this form is very simple, We should exclude the part from the air & as soon as suppuration lakes place lay a saide poultices & & use mild planters with lint in the centre, at the same time keep the surrounding parts clean. We should also aid the parts to combinet by bandages, adhence planter, mut, proper position & .

The General Freatiment we is also very slight & must be varied according to circumstances, the antiphlogistic regimes is to be strictly observed & no stimuli given an any consideration; It must however be recallected that a cortain degree of inflais receptary to a healthy process, but as I before mentioned it may be either too weak or too violent hence the necessity of the division of alone into those of too great & those of too little action.

1st Of those in which these is too much action or as they are commonly designated.

IRRITABLE VLCER.

Home says that such where are to be characterined by the edges being sharp & undetermined the bottom filled with cavities & no appearance of granulation but only a dark while or real

134 Irritable Weer, spongy substance covered by a rechite film & attended with a bloody or thin Johorans discharge which is generally to acrid as to escoriate the surrounding points, the whole of which is very sensible & painful to the touch Sometimes the edges are found serated, very much inflamed which inflam." extends to the surrounding parts, this form is owing to ulceration absorbtion. - But in others rue find the absorbents excited to a still quater degree & the granulations are remained in fact as they formed besides which large cavities are produced; Such ubeers are termed, I hagedenic. This form very rarely occurs without being attended by Houghing one gangrenous miflam". hence it is termed by anthors Houghing where. In this says Boyer the parts become first red, then brown or of a livid colour & finally black; In such cases large portions of the surrounding points are The causes are either local or general, among the first one may mention prefrere exect position exposure to local injuries &c, but the most common cause is general or internal I depend upon the state of the system which

Freat. of irritable ulear. are very various & every deviation from health will produce an alteration in its appearance. Of course when the alimentary canal is disordered or the patient is suffering from the fever or from any specific disease as scrafala, syphilis & e all of which have great influence on their character: These circumstances are alone sufficient to determine the necessity of attending to the general system; The reason why they are influenced by every change of health is that all new formed parts they are weak, They differ also according to their seat, whether near or remate from the source of the circulation as the most obstinate ulcurs are seated upon the extremities. Where the vitality seems lap & the circulation is not so active its return to the heart being appeared by growinty; Mr. Home says that an this account when in tall persons are more difficult of cure than in short ones; their situation also courses a modifica. tion or rather a change in their appearance; as over the Fibia: The disensed bone keeping up the aleir whither general, local or specific. TREATMENT. From what has been suid the general treatment is very manifest, here we have great irritability & sensibility which we must endeavour to moderate, great attention

156 Chreat of viritable where. is to be paid to the general system to moderate the inflam according to the circumstances of the case by U. S. Meercury, Joda, Ke They are used to regulate the secretions & calm excit. ment afrited by the occusional use of anodynes. The numerous Local remedies recommended have the effect of either directly or indirectly reducing irritability. It we those which increase the secretions & thus indirectly reduce excitement such as heat combined with moesture, the steam of hat water will here bevery useful which may be rendered stimulating by the addition of Alcohol. Formen. tations & purchices are also very uneful. 2 1/4 These may be afrested by the narratic articles which pupe front whily a power ful influence on the denuded surface but also on the gen! I ystem as they allay all nervous irritation. At the same time rue should be careful that the system does not becomes too much affected as futal consequences, some times result from their external application, expecially, in children. The best of these articles are the numerous preparations of opium, the infusion or decoction or the Acetate on Sulphute of anorphia are very unful also the Extract

Creat: of instable when . of Crenta, Stramonium & belladona, decoctions of Poppy heads; chamomite flowers, hops & .. besides which poultices of coursets, Jumps I beer grounds are much extalled; probably they act merely as pleasant warm applications. Home recommends powdered opium, gril If may also be moderated by cold & as trungent applications, this plan has been but little resorted to & ruhy? I know nut as I am confident they will be found use feel - Thompson recommends what are called cold poultices & say that they are for perferable to hat ones, they consist of nothing more than common bread made up with lead water or some such article; Some however condemn the use of lead in Such cases & day that by it becoming absorbed it is aft to produce paralysis, but this danger is much excaggerated, Allen confirms this statement by daying that cold & astrongent lations will after answer when the viritation is not very great better than any other remedy, he uses cold salt water, lead water & cold produced by the evaporation of spirits of vine is also useful. 4th The irritation may some times be diminished by the use of structating or excharatic articles as by their use are produce a nerval impression

138 Instable Meer (hear of). Red precipitate is also very useful, (Wesc Man) Home recommends a rocate solution of the nitrus argente. as Polution of common walt is spoken highly of by Physick . Citrine antment & are also very useful. 5. another plan is to destroy the robole surface by the lunar caustic or muriate of mercury when they are small, This changes its character at once & a scab or eschar is left & the parts heat up under it, but it must be remembered that we cannot resort to this plan when the ulcer is large. If suppuration take place under the scab one must make a small princture & let it out or it will enlarge, -Heggin bottom recommends this practice partie ularly when the aleer is setuated about the ankle joint or head of children, These means are all to be assisted by the occasional use of leaches, rest, elevated position &?, at the Jame time avoid pressure of any kind hence the necepity of using lotions instead of poultices - Unctuous applications are generally injurious as they are apt to become runcid. Home recommends the. use of Calal Creme but this is hable to the Same objection . When the implant is so great

159 Indoline ulen. as to course the sloughing when we must treat it as formerly mentioned when speaking of gangrenous inflamm " by nitric acid beer grounds, Touties blisters I'C. The 2 and division includes there in which the in plans is too weak & termed on this account INDOLFINE OLICFIR In watching the progress of such an when we will see that the granulations are pale, large, loose & flat, instead of being conical, besides which they seem to hany by a pecticle, they grow rapidly & rise about the surface without any disposition to unite & cicatrize; the margin are soft, tunid & livid, & much elevated above the surface. There is but very little discharge generally but the pants are covered by a pellicle or crust of a robitish or don't grey rolow so tenacions as to be inseparable from the elect without considerable force, this is termed by the surgeons d'uniques or proud flesh, that there is a lost of action in this about is I hown by there being no disposition of serum in them; The causes of this form are any thing which produces debelity Hoyer refers them to 3 heards, vin: It the abuse of poultices & nutritions applications. Ind general debility as in persons of lymphatic

temperament they are more dangerous is hard to cure; I'd It may also arise from some mechanical impediment as a dead bome ligament, tendon & robich prevent the parts from healing & a thin sanies & some times a fetial discharge is kept up for some times a TREATMENT.

In the management of this stage the common practice is at once to resort to the application of strong constict to produce a slough & reduce it to the level of the skin; Home says this is a bad practice as it does not alter their character in the least nor their vitality as they are just as liable to occur again. He recommends them to be reduced at first by the weaker applications as a weak solution of nitras argenti, red precipitate, burnt selum; solution of blue or respecte with of powdered nhubart, dry heat & . But decidedly the best plan is prefuere & take care that it is not too great for if so where alion & gungrene will pollow Here all remedies of a relaxing nature must be suspended & stimulants & tonics are to be used; dry lint will be found very winful afristed by pressure; When an uleer of this character continued for a long time particularly ruhen detected on

Chronic Indulent ulcer and Featment. the extremities it becomes a chronic indolent ulcer. CHRONIC INDOLENT ULCER. On this state they may exist for a great length of time without giving the pratient any pain, the surface is covered with a owhite film, the edges are thick & hard or rounded & smooth I if granulations we found at all they are may slight; the Catom usually form almost a seveland its general aspect all giving the idea that a portion of the skin had been removed by the kinge, This kind of wheer frequently a fermes the inflammation character from very slight courses I it is in this state of things that the surgeon is usually consulted, for in their ordinary state they are not at all painful & very frequently after me home produced in it a healthy appearance, after great trouble, some inregularity in diet on some other very slight cause will accasion the whole of the new formed fronts to slough rapidly out, In chronic when then we must compel the frakens to adhere strictly to our disections as the least deviation either in diet on from exporme will at once dispipate all the advantages that one have for months be gaining Oreatment of Chronic Indoleno where here

Oreat: of Chronic indolent ulcer. is a great want of power in the system; The in dications in such cases laid down by Home are very important. He says that the granulations are slowly formed & very weak when formed; as they give very before the ulcer heals or this may be the care even after the parts have cientrized he therefore advises at first to give them strength & recommends for this purpose the application of Istimuli instead of the use of relaxing pouls; , vent ments, formentations Ne. as was formerly recommended, he states the number of these ulairs and by this plan, is in the proportion of 4 to 1 by the other, Outments, however, are said to be useful when cumbined with stimulants, an exception to this rule much be used, the stimulants recommended are numerous such as, solution of blue & white ovitriol, nitrate of Sylver; corrosine sublimate, diluted nitrice acid, Juf Mayork, que trice juice of animals, ned precipitate, & citimo omitment, dry heat & . but in the use of all these stimulating substances judgement is required for they must be regulated ascording to the stringsh of the part, himee the necessity of employing different applications

Freat. of Chronic indulus aleer. be determined; but me can only say that moderate & continued prefrace invigorates the frants & causes absorption to go on more readily. hence in old uleers the indurated edges are rapidly removed, The part, approximated; tone & strength given to the new formed granulations with a disposition to unite, & the cicatrix is made more from. By some surgeons it is thought that the ulcer heals up quite as well & is lef. liable to break out again, if the patient be allowed to realk about during the cur (but this I think doubtful): Trowever, it must never be done if there is any nift in unless every part of the trink is secured by bandages, If the aleer is purely induluno Is the general health bod it may be af advantage, but not without, if suft should superview rue must breat it by the Common antiphlagistic mauns as formerly recommended; Here it is recepary to imprefs whom you a contion with respect to these old indolent ufcers after they have continued some times the system become accustomed to the discharge; To much as that it may be fatal to suppressit as it

155. Inflam" modified by Structure. may couse apopleseys, palsies, consemptions, affections of the heart &c. hence it becomes necepary in healing such aleur to emplay other means at the same time. Of Counteract those effects an ifine ruas formerly substituted, but dome risk is also attendant on the Jupprefrion of this, on this account the modern practitioners have chosen the bowels in preference, they here produce discharges daily by the use of cutharties, at the same time allowing a very Simple diet. This membrane is very extensive all the closed cavilie's of the body may be considered as lined by it, it differs very little from the common cellular membrane & in fact may be considered as mearly the same; of course influm may be produced in it by the same courses which foreduce it others vin they are; Internal, External chemical & mechanical, In its natural state it is white, but when it becomes inflamed it is vareular & very plovid, its sensibility is also much increased, as maniferted by severe pain when the suffer is acute,

rohn, however, it is chronic this will not be care,

when it continues for any length of time it become

Infly modified by Structure It Terver lefine. thick pulpy, left transparent & loses its power. of secretion which continues only for a short leme, it is then liable to terminate on other inflowing frequently by delitescence on metastosis, it may also terminate by me increase of its own secretions, this however varies in appearance as in drapsy it assumes the colour of the serum of the blood, some. times it is brown at others turbed & if the anflows " is very senere it is reddish from the mireture of red globales & occasionally frure blood is effused; but the most important Termination is the effusion of lymph when the suplan is mild only a thin larger is thrown out ruhich is very delicute & down convented into a fine cellular tipue; but when the enflower is more severe there is a greater quantity of it thrown out, which is of a yellowish to of an inch in thick ness in some cases & very much referrables the buffy wat of the blood, It may then be precled of from the membrane, after it continues for a length of time, several red spots become evident it which are a proof that the front is becoming organised & it remains between the two layers of the serous membrane as often seen in the pleara.

Verous tipue. In very reapid inflam?, the lipmph is detached in larges prices & found ploating in the serum; such cases we very dungerous; Communty the lymph is merely effected on the surface of the membrane; which appears perfectly natural when scrafied off; but occasionally it is effect in the substance of the membrane, when it is thus effused the structure of the parts is very much altered & thickened as well as the parts undermeath. derminations by pus some times take place, but, this is rare, when, however it does take place it is generally of a brownish column & mugled with scrum & lymph; some times large quantities are formed ever quarts without any referration ( a doubt has arriver in my mind whether the gorons membrane can secrete pur for I believe it to wrise from the organized lymph which has been offered & not from the membrand are very dangerous, as they form large abseles which arrive at the surface lyprogressive met - & are finally discharged, Occasionally it will make its way into the substance of the lings & be discharged by the bronchice the same is true with respect to other cavities lined by this membrane & this is the only way that these cavities are blistered. When the pus is discharged from the cavity the opposing surface

1.68 Jerous et egues come into contact & unite by the effection of a I mall portion of lymph; as yet there is no encolonce that serves membrones ever gracial. for they never unte unlighthey are brought into contact - Ulcuration is also doisal not tooc. cur originally in server membranes: however, when much distended they will alcorate but then it is said always to commence in the sur, rounding tipsued & finally to extend to it like other membranes small abouges will occur. under it & some times large ones are found In a few rure cases the inflam " has termin. a tick by gangrene ", this is usually seen in Spots, but some times it is very extensing; the courties in such cases are fulled with pur; Even after this has taken place in one push it will not extend four as donne other parts in the immediate neighbourhood unite by adhesion & premitit. Independent of these there is an other very important phenomen that is the liability to can tinuous inflower !. as ruhen it is produced in a fruit of the membrane lining the country of the abdomen by wounds & & it is very aft to extent over the rabule; this liability to continuous inflower deems peculiar to the serous membranes; throit is occasionally dean

Serous define & Mucous. in other parts: nature here seems to make an effort to put a stop to it by adhesions, When the inflam of rection is moderate by the affersion of lymph the inflam " becomes cir camserbed by which the infl " is suspended & the cauty divided into smaller ones; it is said that even foreign bodies are encysted in this membrang TREATMENT, From these facts it is evident that the principal object will be to produce the adhenue inflown by the antiphlogistic plan & prefine if possible. 2 mil Meccous Membrane. This membrane is also very extensive living all the courties with exterior communications is if we except the terminations of the fallipium trabes robich enter the cavity of the abdomen they are all continuous with the cutameous surface but all of them pulgels peculicircles different from each other, they are all very vascular & liable to take on the secretary action! Deffering therefore so much in their nature from serous membrane their disenses also differ, but they are not so liable to continuous inflam " as serous membranes & their inft" do not spread unless they arise from a general

170 Moucous Lifene. febrile excitement; a common catarrh will some times spread to the lungs & bounds but this is owing to a general cause as cold &; when they are produced by mounds & other local injuries, they are generally circumscribed & do not extend unless the cause is very violent, even then the contiguous tifines are more aps to be affected. In inflammations of this membrane there is an increased redness, while the heat I. sensibility are very severe, its naturals secretions are suspended; but it dues not become dry as might be expected from the norture of its action the discharges will at first be watery which will be sufficient to remove mild inflas provided the cause is removed, if however the cause stell continues to operates & the secretions goes on it will be justered & pus will be found instead of a watery fleid. In this the mucous membraus is different from all other tifices as pus is here effused before lymph, by this they may be always distinguished & the fact that suppuration may take place without ulceration, if however the inflorm is very great there is no pur secreted but lymph is socreted in is place;

Moneous Lefone thus lymph assumes the forms of membranes of a cylindrical shape & is seen in cortain canals & parts more so Thomiso There as in the tracker, bronching & sesophagus & occasionally in the stomach & bowels these adventitions membranes very varely or never become organised & no adhesion exists between them & other parts; They are either thrown of as and excretion or coughed up, some times the quantity is so great as to course death, The opposing Jurfaces of mucous menitranes do nut unite by the adhesive inflamm as supposed by many, but there is great reason to believe that in all such cases it is owing to revends or where ation remove ing the nucous surface by which opposing parts of the cellular tifice are brought into contact: which contract & unite & this is an important fact in practice; Some reviters suppose that granulations are formed in these membranes particularly in the conjunction of the rye, but I believe that they never form unless the mucous tifue is removed - The inflam" of these membrans particularly in the conjunction of the eye, but I believe that they never form unless the mucous tipue is removed. The infl " of these membranes also extends to contiguous tifue by which the parietes of these membranes are diminished in

172 Fibrous defone. consequence of the efficience of Eymph in the surrounding parts forming strictures as seen in the writhra vesophages &c. this deposition always takes place under the mucous tefrue & not in it as once supposed. They are very liable to ulcorate particularly those in the mouth; some times they aframe the appearance of those caused by syphilis or as if a portion of membrane had been removed, these ulcers are not generally very large but have a great disposition to preservate enternal by, hence large blood wefiels are after penetrated by them, Gangrene also occurs in this membrane & in most cures invalues deeply the surrounding tipues & should the writation remain the whole well slough away - However gangsone in this tiffue is of rare occurrence. Inflam as of the mucous tipue are not as dangerous as these of other tipues. The Freatment count in restoring the secretion & for this purpose we mus resort to stimuli. 3rd Of the Fibrous Tifsue. This is also a very extensive tiffue forming fascices sheaths of tendons, arteries, veins, corpus cavernasum, penis, scheratica,

Fibrows Lifsue

tunica albuginea & c, all of which are very strong they like all other organs are highly organised but in a healthy condition they are insensible but when diseased they are very painful, In natural state the reflects of this tifue carry white blood & adhere with the surrounding parts on both sides by cellular tifrue & in some cases soclonly that it is abmost impossible to separate them -Their morbid phenomena also vary; the mechania ally strong they are vitality weak; as they will not bear a great increase of their vital action, they will however sustain a moderate degree & cause offurious of lymph &c, by this offurion they will adhere together & occasionally to the Furrounding parts ; by long continued irritation they are very much thickned, Some times as much as 1/2 an inch, the thickening is always greatest at the point of irritation & gradually diminishes to the I wrounding parts; hence the idea that they are subject to continuous infl " is incorrect as this is wholly depen. dant on the server & other tipued & nut on the fibrour as many have supposed - It is however true that very severe local & constitutional effects arise from this info but Bell says, that this is worning to the parts being locked down by this membrane, that such tymping are produced this I mentioned when speaking of

174 debruin topue puncture reaunds, so also very violent symptoms are coursed robers pur is formed & confined under the membranes here they do not arise from the Gibrois tifue, but in consequence of this tifue binding it down by long continued prefune the membrane is finally removed & the alexely mukes its way to the surface, but it is much more apt to travel round or to some distance first - To also in Gloughing . -Ireatment, We must remember that as the vitality of the points are meak, robin the infl " is queak it is difficult to visitore them, Chowever in such cases transverse incesious must be made to relieve it, so also when suppuration & gangrene tocke place so as to discharge the slough! & relieve the severe pain, it is often necessary to do this before the Suppuration Takes place as in parynichia, of thatmites & by so doing we also suspend or relieve the genere constitutional symptoms & tension. Belonging to the same system are the Tendons & Ligaments; they differ in some respects from each other; but as regards their wital properties they may be considered under the same head these facts are very important on the distriction between nowed

debrous tefree Is tendows are but I light by understood even at the present time Cooper & others says that functures of tendons will course subsulties tendina & - & all the dangerous symptoms which arise from wounds of the nerves . - They are mechanically strong, but witally weak; no pain com be produced in them, so little varitation exists in them that continued excitement is required to effect it when however it does take place gangrene is very apt to occur even while the other tifines are gradually recovering & in contused revends they always slough - When the inflam " is very moderate they are capable of adhesions & become united with the surrounding parts; it is the whim & cellular membrane that cause the deposition of lymph in the greatest proportion, it also takes place from the tendon itself but not in so great proportion herece they are capable of requiration; these processes however require a great length of time when divided union rarely takes place in 2 meets but are not strong under bor 8 - papeling then these properties they are liable to many injuries as contusions, revumes NE, particularly the lendo Achillis & ligament up the fratella, they are some times resplaced by the violent action

176 Hibrous Lefone. of the mureles; in such cases no prime is fell & the patient hears a noise resembling the crack of a whip which appears to him exterior to his person, this is attended with an irritateility to move the points; These accidents occasion no external avand & on this account are mut so donngerous as rounds of tendans, rwhen a complete division tokes place it may be known by a laft of power & a vaccity is chelt between the extremities of the divided. portion - But this does not always happen as in cuts & it is some times found hanging out of the revend, this is also the case in some contured wounds . It may be recognised by its viluny appearance - a partial division is more difficult to detect as there is no luft of mution, a vaccity & here we must depend upon our anatomical knowledge as to the depth of the wound, the direction of the instrument & the Situation of the parts, as in the mound of the tendor of the biceps in bleeding in such cases in consequence of the continued matern of the arm the parts do not heal, but a slow chronic unfl takes place which will be found to wint all our means & perhaps mealers the patients life

Februar Lipice by its extending up the arm, this is after the case with ligaments about joints as in sprains He rusture there has not been my cure taken of it, by its spreading to all the Juriamiding Treatment We may expect of course that all contained recounds of ligare into, tendons & will be fullowed by Houghing In the complete division of them we must endeavour to approximate the divided portions by suitable position at the same time leaving careful nut to allow the enterposition of thin or any thing else betieven them, nor suffer the bemedayes nor any part of the drefing to prefe whom them as they may be displaced; on this account they must be very curefully applied so as to prevent its being made on the divided ends, splents are also necessary; there means should be employed until union takes place; but some times after employing them sometimes no union take place between the ends If the extremities of the tendow adhere to the surrounding fruits & all matein is last; In cases of this kind Dr Hoomer recommends the in tro duction of a selve which causes the nesrepary degree of suft " I consequently a

Muscular Lifine. union to the extremities by which union the muleun of the points are restand. When however it adhires to the surrounding purts this will be of little use alone, in such cases of ash has proposed to defect them up & brings the ands into contact, so that the parts may rathere, This it is said has been succepful - Partial or incomplete wounds of these tipues are to be breated with the same caution by splints, rolling de Is will generally unite in 2 or 3 weeks Usually in such cases no bad consequences will fullow, Some times when chronic ufn has taken place the application of a splint will at once arrest the violent symptoms as in sprains &c; I plints Theretol also be used in the treatment of continued warms of tindows & legaments - If the tridon protoude it should be restired to its natural position if there is hope of remien but if not, cut it off & replace the end, but deformity will generally arise particularly if there are any granulations as they write to the Garrounding In this tipue are very great, it possessing

180 nervan Tefine ochymosis & a vacuity. Freatment - Here complete vest & coaptation of the parts we required afrited by bandages, splints & with strict antiphlogistic breatment. Some times it is necessary to make deep seated incisions for the purpose of relicing tension, evacuating the pur &c. This System is divided into 2. the cerebral & ganglionic; they differ very much in structure & function, but it is almost exclusively to the circled never that our views are confined, They are comprosed of a bundle of fibres enclosed in a sheath or neurilema, each fibre is supposed to be composed of medulary matter & a separate sheath connected together by cellular Julistance, Their refrels are very surrevers - The there are separate nerves for sensations & motion, they are to mingled to gether that it makes but little difformer to the surgeon; The nomes of the face are the most important as regards an exception to this statement. The onemes of Sacretion, nutrition & are very small in paralytic patients . - The control nonces are very strong & even when the surrounding parts slough away they stell remain of and.

nerson Fifme.

Affections of the news are rarely idiapathic but they are often affected by surrounding parts, mechanical injuries de. In every in cised wound your of the small pelaments of nerves are divided & the round head without impleasant symptom, but dangerous consequences are the result of wounds of the large trunks, & contusions of them wire very severe & fall at the extremities. When more genere there is a lop of motion & function This may also occur from prefure & when great paralysis is the consequence, as seen in patients from long yetting in one position: - during parture tion from pressure of the child's head, Ligatures applied to the nowes will cause the Jame Tymptoms - M. Hennen observes that occasionally the toes only are affected by prefine on the sciatic nerve - Wants of nerves may always be known by the acute pain at the morning of the injury of the loss of Jansation & mation after wards - When they are competitally divided the medulary parties is prefed out by the new. rilema, the secretary & mutrition of the nerue are also diminished & in consequence the nerver becomes much deminished in sine. If the irrelation of a nerve is continued it will cause prostration; but a mere division of it is merely attended by Levere

Nervois Gystem.

pain & no constitutional affection. At present There is no bloubt but that divided nerves are cupable of reunion, ruhin slightly separated there is a kind of ganglion formed; but when separated farther there is a ganglion or button formed proces at each end with a ligamentous or fibrous matter between them - In case of a reunion of the divided ends, sensation & motion will return after a while, Boyer denies this & Cuvier says that motion will return but not sensation - But that both motion & sensation do return is proved by the circumstances of a limb nearly separated from the body by an incised wound acquiring motion & sensation on being united, transflanted teeth also become painful - Hegden divided both the preumo-gastric nerves by separating them at different times allowing one to unite before he cut the other the animal did well, but ruhen he out both at once the animal purished instantly; the term required for the union of divioled nerves is variously stated by different anthors a Cooper Says that 10 or 12 weeks will be required for the union of small branches while the large ones require 5 or 6 months, The largest never of the body many be contained or lacerated without any constitutional affection thro very prinful at the

time they may also be exposed for a length of time in abcefred & without any bord effects & finally granulate & heal - M' Hennen mentions a circumstance which is well worth attention; he says that the neurilema will some times become inflamed & thickened and cause secondary paralysis. Jometimes enflame of a nerve are produced & kept up by the presence of foreign substances, ligaments & c , in such cases they are very painful of the pain is not confined to pair but extends itself thro' the whole course of the newe; this will also in some instances be attended by secondary puralysis, all of these phenomena take place wishout any redness & very much resemble the disease called Tic doules eur ; Some pathologists go so fur as to Itale that foreign bodies or injuries of the kind are always the cause of it tho' I believe that it can take place without it Paralysis is also an accompaniement of this disease & is not I wiply confined to the part itself, but affects others,

precisely similar to that of other parts; Bring is near as profible together & keep them so, after they have united the paralytic symptoms will very soon disappear; If not we may afirst by the use of dry frictions with coarse flannel; Cooper recommends electricity & He ennew says that the evaporation of other will be found very useful but when it is attended by new algic symptoms

184 Ofseous diffue. the case must be looked into & if possible removed, if it is caused by a bullet lodged in the substance of the never we must excise the injured partien if the nerve is injured we much cut out the portion of it - or if it is enclosed in a ligature one must suspend weights to the ligatures or twest them tightly. Whenever one intend cutting out part of a nerve always make the upper division first as by this means we prevent a great deal of suffering - On partial divisions of the nerves it has been recommended to divide them completely This however, has been but little practised; the it has occurionally been resorted to in injuries of the bend of the arm; here they recommend the integuments to be divided down to the bone, shewing that the tension of the fascias was the form ciful cause of suffering from Thise & many other circumstances it is believed that a complete division of them is never necessary but they should be treated priceisely as recom. mended under the head of lendons - Hennen songs that this division is never merforing. 6th Ofsevus Sifsue. 1 Jones are abundantly supplied, with cuefiels, nerves & absorbents the like tendous they pufely but little low degree of organization

Ofseous diffue or no sensibility in a healthy state, but are very primpul when diseased; the me chanically strong they are vitally weak & capable of taking on the gangrenous & elevative inflower like all other tipues, but owing to their vital weakings they pass slowly thro' their different stages. They are liable to solutions of continuity. as the nation respecting the union of bone are very various, it is but right that I should mention the process; we will suppose a case of a simple fracture for an illustration, without any communication with the our . - It is found that they are first I wrounded by a coaquelum of blood, ratich finally becomes aterorbed and the extremities of the bone, the perior team & the living of the medullary conal take on in pluse & secrete by upti which commences about the 4th day & continued until about the 10 th or 12 th filling up complete all the space between the extremities of the bone, this is the foundation of calles - refiels, never, & orbsor bents enter it & it finally becomes cartalay inver & it is then that the bong mentin is formed which soon becomes hard - This calles is at first very vascular & can easily be coloured by an injection, indeed some difference in was cularity can be disting withed after 12

185 Ofrem Lifere years; it becomes covered by a new perioste. is cellular internally & contains a medullary matter; this kind of union also occurs if the bones are separated or only in contact by their sound surfaces; as when the extremetics frap each other in fractures - here the caller is farmed at its sides. This deposition takes place more readily in the hard than in the soft bones. Ofewer union takes place with difficulty in persons affected with Scrafula, Typhilis, Senry; internsold age de, Some times bong union dues not takes place, If the new formed cally is disturbed by mution, from the points being two for separated, from the interposition of foreign dubstances as dead bone on from extreme old age; In such cures, however, an attempt at union is made & a kind of legamentons matter is furned, the ends of the bones becoming pointed & smooth, allowing the parts to glide freely on each other forming a false joint, in such cases there is always a deficiency of enflower, but at other times there is too much implanmation couring suppose ation & no union takes place as Seen in composition fractures here The

Opeous Lefine inflam or exposed portions of bone secrete prus granulate & finally unite by the second intention. The granulations are of a light red colour much firemer than in other purts, & have a globy appearance; This process is very tedious & makes great demands upon the Tystem - Infl" of this tipue wires from other causes than those mentioned. They are either external or internal mechanical or chemical; Trefrine of any kind will cause slight chronic emplor but if sewere B continued the pourts will finally alcorate but not supporate as seen from the prefoure of ancurismal tumours & In Jome cases what is trimed an intestinal absorption takes place; here the points become much Guraller & Thinner the the escape remains the youne (it resembles marasmus) besides prefure it may be produced by several other courses, as Typhilis, mercury, geruphula, cancer & all of which may be considered as enternal courses of enjuries as extimul, ... It is also said that fever will affect the external lamina of the bone, Whenthe influ is superficial the symptoms for the most park are not urgent, but if deep scated & in the cells Thruthere of the bone it will be very from ful causing fever, delission & at first the pand

O frevus Tifine of a dull heavy characi is not aggravated by pressure, but by its extending to the perior teem it becomes very much so, the pus may be landable, but more often it is thin grayish & very feetid - When inflam " does occur it will very after destroy the bone & in your cases the owhale cylinder this is termed necrosis & is often seen in the tibin & inferior muscillary - Tometimes it is coursed by courties & Genthal manneds & may occur & may occur when the perios tens is removed - Whenever any portion of the ofsever fabric is distrayed new bone is generated but when only a Superficial portion is affected it acts as a foreign bady exciting inplan - in the govornday parts in consequence of which a circumsvilled reduch is seen & in a few days afterwards a figure become perceptible robich continues to in crease until the whole afet is separated from the living bone, The process of separation is a fristed by the bounds bone formed under it. This is turned 2x fallintions and is truly a vital process as there is no Taliteon or melling down of the parts, from

Ofrever Lefrue the vital weakings of bones expulliation requires a great length of time during which there is consti present an aben which from its containing at the beattom dead bone is called carrious which will not head until the bone is removed by alesorption orast - Os I have mentioned the whole cylinder of bone becomes affected the spongy extruities safefeted, here it happens as in the former case & ulceration in the extremities is induced by the dead bone which cound them to separate; but long before the whole shapt of the bone is removed the important aperation of the generation of new bone commences, When this is about to takes place the persusteum which acts as an aich between the two extremities becomes very much inflamed, thickened & gelatinous & finally generalis a complete cylinder of bone which I wrounds the diseased bone completely & on this account is termed invaluerum while the desiased frank is called Leques trum from being That up by the other. The new bone is usually complete before the old is entirely reparated & this account for the fact that the brind is in the cubale cure, the newly formed bone always remains very large - In some rare instances

Theour tipue the dead bone is completely absorbed, tho' more generally after being reduced in Juze by absorption it cause an alceration of the invaluerum & is discharged. This process is very tedions & makes great demands upon the Lyston for several years that the Gormation of new bone depends upon the herios teum as mentioned by the ennen is proved by its never being generated when this is removed; in some cases of Gunshat wounds this is further confirmed, Here the bone is killed but the lacurated perior team becomes inflamed & takes on the secretion of bone which is seen depending or hanging from the bone in mapes, Some times if he survive either form an involucium or arch which united with the inferior part & he will finally recover but this can only occur when the procestein is but little injured & the constitution of the patient strong & if this is not the case amputation will be necessary. The freatment is to be conducted on the principle heretofore inculented, a great advantage in knowing natures method is to know when to interfere; In superficial necrosis

little is required all that is neefary is to keep the

carifully remove all small friend - Contunions

Offever lefrue Is rounds of leanes in cluding fractures are to be treated as a rounds of soft parts . The most important in dication in the treatment of fractures is to regulate the degree of infer by antiphlogistic remedies that it may not transcent the adherine stage as it will dome times coursing abrefres & this converting a simple into a compound fracture, Some times it is too moderate & in consequence union is delayed beyond the usual time in such cases it has been recommended to apply splints to secure the limb firmly & promit the patient to walk about . The use of stimulating applications has also been recommended but decidedly the best plan is to attend to the general Tystem. Mr of Liverpool has recommended Electricity to induce a strong union we must excite a sufficient enfil " to course the efferior of lympte, some times however these means fail & rue are compelled to resort to others, a case of this kind come into the hands of Mr. White who ent down & Sawed off the ends of the bones, placed them in contact & succeeded in accomplishing a complete oure; the accumpanied by

surgeons never apply poulties as they always cause

194 Cartilaginous define. suppuration & if our design is to promute union by the first intention instead of them we much apply cold to the whole limb. igh Cartilaginous TISSUE \_ Cartilages are found in receives parcs of the body as at the extremities of all bones forming moneable joints, it some times unites bones as at the symphisis pulis & in other cases entirely supplies its place as in the septem of the nose , ala Ke. They are divided into 2 kinds the articular & the It is not certain that they are an organised tifin but from analogy we are inclined to believe that they are, articular cartilages however, show but title vital phenomena while others are considered as profreshing a sufficient share I are capable of uniting by the adherine info forming bone at the place of union - Cartilages in young subjects are certainly organised or bone would not form in them the they are very weak, They are also teable to ulcerate & dough particularly the articular cartilages, Septem navium de Some Physicians Day that they are absorbed by the repels of the surrounding parts bit I am of the apinion that some of them at least

Arterial Diffue we removed by their own refiels, at present one do not know whether they ever do granulate or not this many & in fact often seems to be the case in the cartilaginans Septem of the sive in the others however the union is alway borny, Treatment. Here we must keep down inflower by rest, low drit & other remedies so often recommended & in case of fracture as in those of the rails keep it at rest for a long time or supper. ation will be aft to take place; When externation has commenced very Little can be done by the surgeon unless the points are exposed, then rue must cut it off; but if we treep down impl" in other parts I wrounding it there is little to be formed from this as it deldom occurs originally in the cartilage itself Terrial Teffice Arteries are composed of three could, Cellular, L'ibron & ferons, each afrakich has is preculiarities, the servus has an antwors feel, is very fine & is ruptured with great facility; The filerous membrane differs from others fibrour membranes by pufsing a yellow or dim colour & great clasticity & is very remarkable for the facility with which it is ruptured; the fibres are circular; The Thength

190 Arterial Vifice of the artery is dependent upon the exterior or cellular coul, which is very dense & strong and deffers in this respect from the lefour in other parts of the body these tifues we supplied by the vasa wasorum & neighbouring sufiels also by the gang livric & cerebral system of mores & in fact they are very highly organised consequently adhesions readily occur, while suppuration & ulcuration do not, as they exist for great length of time in the very centre of abcefies without being affected, anterial Hoemorrhage. The division of an artery may be recognised by the issuing of a stream of blood which coaquelates much sooner than the usual blood & by prefrue between the orifice. & heart canning a diminution of stoppinge of the stream; If the artery is only partially divided there will be more hvemorrhage than't it was entirely cut through; barryita dinal wounds are an this account much more dungereas than ablique or transverse, in consequence of its runing a crufs the fibres. The arting, is deep seated the blood is sooner supprefied Than if creternal in consequence of the surrounding parts entangling the blood & forming and

Arterial Leffue a congulum which finally close the whole in the arting of however the artery is entirely cut thro' the ends are retracted within the sheathy, while the swine in dring parts contract report & in this way partiables pat a stup to it, the blood plowing still however becomes entangled in the Theath & forms what is termed the external conquetern & by its prefiere finally puts a stop to the discharge, at the same time the blood within the artery becomes congulable as high up as the first arresto moving branch & civiles not the sides of the artery but to the base of the wound; this is termed the internal coagular to distinguish fram the external. The suppression of the place of blood from the divided artery is also af sisted by the bufs of blood diminishing the face of the circulation & causing in some instances, syncope, but all these means are to be considered as temporary only & before a cure can take place of a more permanent norture must take place, This latter may be termed secondary & counts of inflor which commences in the divided end of the artiry as a consequence of which lymph is thrown out which becoming organised a union of the parts take place, after this the eseternal of internal congularion

Arterial defices becomes gradually absorbed - As I before mentioned the partial division of an artery is more duniquevers than when entirely out thro as there it does not contract, consequently the only natural method for the suppression of the flow if the congulum which forms & to afoist its formation we should compare the part, here the theath becomes distincted which prevents the orifice made in the actory from corresponding with the one in the Thealh, the distriction of the whealth preuses on the artery and I taps the bloud; according to the experiments of Joines if the cut in the artery be equal to 1/4 its diameter; nature will be in capable of supporefring the humonhage, & it can only be done by prefree which generally causes an abliteration of the canal ( Same Surgeon, doubt owhether a princtured artery can head by other means than the ablibration of the canal) - Ortions are also subject to lacerated & contured revands, but they do not bleed as freely as the former & in some cases not att all, This depend first upon the paralytic condition of the artery itself, 2nd from the lacuration of the surramending parts they become inflamed, thus cause a much

Arterial define?. larger coagulum, 3nd because the blood in contact with bruised parts coaquilates more rupidly those in other purts, 4th From the laceration up the coats of the artery enternally & entongling with the cellular membrane esetemally it forms a conquetion sooner; 5th from a cultupse of the sides of the artery which forms partial values & thus prevents the place. The timporary suppression in these injuries is thus accounted you but their permanent over can only be affected by infl", hence rue see a certain degree of influ is necessary for a successful termination but if this is two great supporation will be the consequence fullowed dey secondary humorhage In gunstrat revaineds the blood is stopped in nearly the same sway, but some times the ball stricking the artery kills a portion of it & no blood is year to plow; in a few clays, however, the frontion slongher off & a secondary hemorrhage take place; it is this reskich Anny Surgeons as much observed - 8 in such wounds the should be on the alert. Wreatment, Every Gurycon should consider this duty to suppress the hvemorrhage as soon as populate - for this purpose in I bight cases he should promule

200 Arterial Lipne the coaquelation by prefiere with lent, springe or any porous substance, in dainy this be much be careful mut to interprese these articles between the lips of the wounds but bring them together & endianour to promote union by the first insention - the contraction of the artery, may also be promoted by cold & astringent articles at the same time taking care not to wash away the coagulum between the edges, These articles are are classed under the head of Itypilies when the bleeding repels are situated in unyeilding parts as in the bone & or in such situations that they cannut be acted on as in the mouth &? it will be meerpary to form an esthon by the actual cantery but here there is danger of secondary chemowhaye - We must also endeavour to tate diminish the force of the circulation, in moder. cases this many be done by absolute rest cold drinks & a strict adherence to the anthiphlogistic regimen but in severe cures it mill be meetsary to resort to U. S. even to syncupe & in internal humon hay. it is our only mode of cure -- Orefune must be resorted to ruhen the artery is superficial & for this purpose comprepes & bandages with the touringuet are recommended, If the blood is found vaging out of a small artery; a compress & bundays dre for the

Arterial Fifue

most part sufficient, but if the outery is large this will not answer the a wound of the brackial witery is said to have been cured by these means generally when this is the plan of treatment the canal is abliturated; The older guryeons where in the habit in cases of effusion to fell the cowity with list all that is necessary, however, is to being the points together & promote union by the first insention - Graduated compressed have been recommended; but these also cause an obliteration of the canal . . When the tourniques is thought necessary it must be applied between the wound & the heart; This is only to be used in sudden & severe cases until other means can be omployed - The most important means in our power in such cased is the ligature -Mo? I, ancer was the first who re commended their opplication use in supprefring the flow of blood By their application the surfaces are bought into contact the blood your coaquilates & union takes place; When a ligature is first applied to the main artery of a limb the lemperature of the limb is much diminished, but after a while the circulation is corried on by the anastomasing branches & the temperalure usually exceeds that of the other - In a few down after lymph is secreted & union takes place the

arterial Fifne

the ligature acts as a foreign body, courses ulcuration & is finally discharged - James Gurgeons have observed that union owill not take place when we apply a ligature unless the internal & milde coals of the artery are divided, but this is a mistake as it is frequently veen to be the cuse as in anewismal tumourd &c. Mr & Bell on the other hand declures that simply opplying a ligature under the artery without compressing it will cause sufficient infl " to abliticate the canal hence he says that it is not necessary for the internal coats to be divided. It has been suggested to divide the internal ands by a ligature & then remove it, but this is not depended upon -Mr fravers suggested the removal of it in a efew hours owhether divided or not. I think however that the most certain practice will be to divide the internal & melde couts & in this me that be tup ported by neverly all the distanguished Gurgeons in this country & four one the I carpa, Bell, & some others oppose this plan is suppose that prefoure is quite sufficient . -I prefer the division of the coats, because I

arterial Tifsue.

believe it to be much the safest plan & more certain of success besides union will occur much somes than by the other plan - Hence our object Thould be not only to put a stop to the flow of blood but to divide the inner coats as that union may be more speedly accomplished, you this purpose the legature should be strong I mall & round & at the same time care is necessary lest in the application of it we divide the external coat - Tearpa, Bell, & others profer the flat ligation but the they would answer in many cases I would rother not use them - In either case we must including a never fascia & in the ligature as they will retoin the ligature much longer than is necessary consing insitation & a great deal of pain - In tying it we much do so as clase to the end (if sound) as profible so as not to cut off its nourishment from the vasa varoum Whenever a large artery is cut it will be neafsary to apply two ligatures are above and the other below as it is aft to bleed from its inos culating branches at the same time. We must cut off one extremity of the ligative to us to lepen the irritation as much as profitele; Some Surgeons when they wish to promote

union by the first intention out off both but the knot then courses an abself which is as bad as the revend itself. To obviate this Dr. Physich suggested the use of the animal ligation which is taken up by the sebsorbents, this plan has been adopted in this country & by many of the English surgeons. The knot however is absorbed very slowly & some times causes much viritation, on this account he recommends no to use a very thin slip of mushin to facilitate its papage externally.

Take place . Tome times the infl" is too weak take place . Tome times the infl" is too weak & roben this is the case the impetus of the blood will over come this slight amon to se condary hoemorphage will result. But generally the inflam" will be too great & in some cases it is very severe. This may be preduced by several causes as improper ligations or an improper mode of applying them or prefuse or mechanical injuries of any trinds. This inflam a dipper according to the degree of injury to instead of living confined to one part spreads along the rabale internal coat to is called artistis. Tometimes death is produced in consequence of its extending to the heart When the impl" is slow no ill consequence will ensure, but some times it is very great

Couring an effusion of coaquelem lymph, as in croup which finally obliserates the country of the artery; In some instances this is effected in the courts of the artery, this generally arises from wounds of the writing itself; but sometimes it spreads from the surrounding parts . In one case the caliber of the avita was obleterated by it - for this case consult Hodgoon - Crampton suys that in many cares the constitutional symptoms are very great of this is often the cause of death after amfuntations. Tachalogists generally have not very accuratily noticed this diseases & the symptoms have met been laid down by any writer - A Cooper is the only one who points out a diagnostic of this disease, he says that the limb will be found stiff with great poine on moving it apparently very little danger wises from the offerior of lymph but if it sun on to ulceration it is very dangerous, - Some times pus is formed without elevating in such cases it is generally curried on with the current of the blood; in other cases it is formed between the coats of the artery & is then very dangerous as it is always accompanied by alceration to effusion of lymph; Spontaneous alecration often occurs in arteries as an original dinace embels from I wrow dring fruits or from the application of ligatures when diseased - & Some times in a

arterial Fifue

very irritable constitution the ligature ruise cause himorrhage before any union takes place. In such constitutions it many also take place from the artery being searted in a leagues & from this cause we have hoemaplesis, I humaplement Ne. here the hoemarshage is secundary . -For these reasons are should never apply a ligature to an artery of a man rehose constitution is deformed without first correcting it - artery are also liable to the gengrenous inflam & this may result from the mere violence of the original injury as in Gen that wounds, in such cases they are fallowed by severe & dangerous bleeding but must injuries of this kind don's from its spreading to the artery from the surrue ding parts, as the artery posseded great witality, they will resist this process for a great length of time; the ditunted immoralistely in the centre of a large abeef. At how mortification takes place hoemowhage ranky does as the adhes in infly precedes it; the second course that the blood in the artery congulates, the reason of this is not known as it is found eseting about the line of demarkation, the most probable Oupposition is that the blood is at rese of conquelates

Aneurisms. before the parts die but in all cases the adhesive enfl to takes place preserves to the separation of the parts by alcuration - here the constitutional symptoms are very source & the same as those mentioned when speaking of mortification as a termination of infla. anewismo. They have been defined by surgeons to be a bloody tumor communicating directly or inderectly with an artery - They are found in different parts of the body & are known by the name true or fulse. Free aneurismes are formed within the coats of the artery; & the tumour is coursed by one or more of els coats of commencates with the tube. I also aremimo, excits when there is a direct opening into the artery thro all its cours & the parietes of the tumor & are formed by the surrounding fruits adhering together - True answerisms never yours in healthy parts, hence one shall not now speak of them . - False answering arise from wounds in healthy anteries; The first I shall speak of in Differed Habse Anewison or primitive - This is produced as I before mentioned by an opening morde vito a thentity artery of in consequence of its

obliquity the blood council escape externally I is therefore differed in the cellular member. To as to inject the whale limb which becames very much distented & by its prefoure may in some instances - put a stup to it; the effection continuing to take place however the limit is more distinded which interrupt the circulation I the limb becomes first cutil & mended then mortifies. In some cases the Skin & collular membrone retard in some deapre the discharge when this happens a small termour directly over the orifice is formed, which is afa livid or martile caleur awith a trumber pouloutin . This deffused facts cancurase a is dangerous from the extent of the blood effected & the Enlikety in the parts to martify Treatment here is the Same as in the divisions of the artery with some slight additions . In the first place a tourniquet should be applied & then if profile reveshould apply a ligature to buth orificed - At the same time we must make free encisions into the part & evacuate the coaquelen from the cellular membranes as much as populete & endeavour to produce union by the first intention, the this is hardly ever accomplished for the blood in the parts is liable to putrefy from exposure

to the air, If this happens were much amputate & this is our last resource - In must cares, however, of princetured arteries, the immediate flow of blood is ansested by prefuer from some afistant & there is not much infeltration in such cases a congular forms at the verifice in the shealt of the sertery & by its prefoure it put a stop to the place; Inflower then takes place lym is thrown out & the part adhere - but it some times happens that the natural cure is prevented & this may occur from a variety of cause us mution be When this is the care these & light a otherious are forced . The coagulum is removed from the orifice of the blood by the contraction of the hearts is driver with the cellular tifice; but it does not spread in consequence of the adhesions in the surrounding parts, the fares of the heart & arteries drive the blood into the fruit & a circums critical turnous is formed which gradually becomes lunger do distinguish this from the differed it has been called Halse circums carbed menine Some times this is caused by the burnting of a true arrangers some & turnor & is then ter a d'alse consecutive asservement - This tumor commence in a few stungs after the accident or it may be distanced for one or town recepts - It is would dat fire

210 arterial Leftue the culour is not changed . It has little or no pain & pulsates, this pulsation may be arrested by profession on the artery about the injury of when small the sace may enterely emptied by the same means, but returns when it is removed - . When large the pulsation cannot be distinctly fell & the termour cannot be entirely removed by pressure, The reason of this is that the blood is avagulated in the cavity of the sac & this takes place in layers. Here old answirms become lift pulsatile & more from . If defrected the blood is found coagulated in them on different layers within the membranews sac particularly at the sides while the centre remains pland. When then formed it usually continues slowly to enlarge by the impeters of the blood & if adhesia, did not take place they would I pread in every direction. The preferre of the turnour gradually causes an absorption of the surrounding parts causing swelling & great suffering . This is generally the end of all nighted senearismal times The nature some times accomplishes a cure

a answirmed timor is very large by its proposer it causes sewere inflow multich write it

to the surrounding purts & terminates in mortification by rubich the whole turnour sloughs away, Sometimes the hoemorshay kills the poetient, but in Some rare cases the whole cavity is filled with coagulated blood which prevents the entrumer of pluid blood until granulations are thereon out & union takes place if the patient constitution be strong enough to bear the demands made report it. The 2nd Course is by preferre made whom the artery with which the sac is connected, When these tumors are formed, the current of blood by its impetus cause the lumor to prefe upon the lower parts of the artery & it becomes obliterated by adhesion the blowd above the tumor then being at rest coaquelates & then give an oppositunity for the cornal above to be ablituated by adhesion - The 3rd is by the congulum in the sac gradually increasing until it is filled up & finally obliterates it - This is by for the most common mached - Hodgson has shown that in large arteries of the body the sac may be filled with the congulum & finally be eased while the others remains pervious; especially in the acres This ged method is a very desirable process; but it Geldom occurs in I mull arteries without and

212 arterial Figure. obliter ation of its canal; tho' a case of its occurrence in the brackial artery is recorded - Of course in these cases, the blood no longer findings ingrifo, the tumour does not increases but alesorption going on the coagulain is reduced in sine until at lingth it becomes a small ligamentous turnour. While this is going on in the main artery other effects are obtaining in the smaller. When it fruit occurs there is a sensation of coldness; poin & number of in the line , but this does not long continued as in a few hours the temperature gradually return & excelds that of the other side; While at the same lime the pulsations can be distinctly felt to in crease as the temperature returns Is the Imaller refrets appear to be turged; Hodyson Jarys that they generally are allentaryed at frist, but that only a few of them remain primountly so which friendly carry an the cis inlation In some cases, however, the I mall are not at all enlarged, the inventating vefiels carrying on the circulation as once while the main artery contracts to the first anastomoring branch, It was formerly the opinion of many that the refels coming from the artery were first enlarged. Hades on however,

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process that this is not the case & he declares that it is the smaller & more superficial refuls that are first enlarged. I careful says, that when an anting is ablitantial from any cause the blood meeting with the obstruction It instead of distructing the artery, because that artery & goes to another; by which it is finally ablituated & not enlarged as formerly supposed. From these remarks we are to imper that when are artery is ablitarated that it is the capillary capels which carry on the circulation by enlarging hat after a short time there coming directly from the artery supply their place while they contract to their former directly their place while they

Treatment of Aneurisms.

This is to be chanded on the following forder mental principles - It answirmed tumors enlarge of comply Gram the propulsion force of the heart & arteries - 2 nolly a spontaneous cure occurs in those cases in which the force of the circulation being sufficiently diminished. blood evagulates in the tumor . Bret of the force of the heart & arteries be too great the tumor is ruplined & death occurs. Therefore the great indication will be to favour this congrelation

214 arterial Lifere. medical & Surgical means - By medical means we are to diminish 1st the force of the heart & artiries by active bleeding, low diet, absolute rest of body & mind, beeching & - Ice will also be found of service when applied to the turner & the refrels by diministing thedelermention to the part & facilitating its augulation. When the antiphlugistic treatment has been carried to a sufficient extent the coaquelum forms much more readily & in most cases where sportaneous cured result this has generally been the plan of breatments - Malsauer man was the first to recommend this, but it was but little noticed until of late years. - To be effectual it must be carried to a great extent, 14 , cares revere succeffeelly treated by him on this plan ; in anunion, of the large attains . valid a reduced his pot anti ling bearedy raise their arm from the bed ... i as a general reale it is more important in true anewismo it is the principal plan of treatment

as a general rule it is more important in brue as a general rule it is more important in brue described it is the principal plan of breatment on as an arisms of the acida rue much be carefully in asing U. I. as if the puts int faint he may not recover. But in creterial assessment over have surgical means which are far superior. The first of there is preferre but the degree to which

first of these is preferre but the degree to which it must be employed is so great that fow patients will submit to it; when this is the case great

benifit will be derived from its moderate ap

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plication combined with medical means already recommended; When prefrere is to be used always be careful to commence with it at the extremity of the limb - The 2 nd method is to open the tumor by fred incisions (the towniquet being first applied) turn out the contents & apply, a ligature both above & below the tumor; particularly in fulse answerisms, as in true ancurisms it will hardly ever succeed as the artery is diseased & a secondary housenowhage will be sure to fallow - Many objections have been unged against this mode of operating . I the coats of the writing at this fromt are very, much thickened extensive supporation is apt to follow; the courtitution al symptoms are very great on well as the danger from secundary houmanhage besides which union by the first intention Geldom or never occur If if it does the limb is generally . It iff - All those dangers are very much increased in true answering for as I before mentioned the coats are diseased. It unter from the danger always attending this operation has recommended a 32 operat: tying the artery some distance above the turnour - the advantage here is that me have a sound part of the artery to operace on & it is easily found there is no fear of 2 new hoemourhage There is difficulty in finding the artery great homomorphage is aft to occur & there is great difficulty in applying the ligalized.

besides robich one escape the complicated dangers arising from apening the sac. When applied the flow of blood immediately stops & the pulsation ceases, the conculation being carried on by anas tomasing refuls, Some times, however, the pulsation is found to continue for some length of time after, but it is much weaker & the parts finally unite; here the wis-a-lings is so much diminished that nature is enabled to accomplish a cure; that portion of the artery below the ligature remaining impervious down to the tumour the corculation being carried being corried on by the masculating branches; This is in some cases prevented from taking place & mortification is the result, In such cases amputation will be meeting this, however, is nave, the 'it may produced in some instances by light boundayes, bad position of the part, prefure of the tumour &c all of which must be kept in mind & abainted if puficle. It is more apt to occurs in alot persons & in those restrose constitutions are depraced than in any others as their sirculation is not so signous of an this goewant are much not bleed as recommended by the french on apply call I astrongents lations to the limb to dinimish the action - a certain degree of heat is manfrary to produce reaction, but it must not be too long continued

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with fullow both excepted.

There are some cases of ancurism in which the ligature carried be applied to the superior part of the artery as in the growin, root of the subclavian, arteria innominata &c. here the patient must submit & depend alone upon the medical means unless some other aproaction were substituted; On this account it was proposed to apply the ligature below the tremour supposing that it would operate in this cure as in the suppression of hornourlange that is the blood melling with an obstruction becomes cary up to the first ances tomosing branch & the artery finally becomes obliterated - Veletone was the first to buy it, his patient, however, be a drunkard it failed. Cooper also failed from the same cause & the extreme age of the patient; This put a stop to farther trials until it succeeded in the hand of Wardrop & since his time it has again received & been successful in several instances - Jame Juryeons were formerly of an aprimion that there some times existed a hornia of an artery or as it was termed a mixed an eurism & that it was produced by a division of one or two of the coats of an artery, while the pulsations of the Chear coursed the other coats or courts to be protruded thro it but it is believed that this never

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takes place & the experiments of Houseless go against the opinion he has satisfactorily proud that instead of the internal coats distinding they become much contracted & thickened! . Somed was also of this opinion & says that the impeters is never sufficient to distind the inner wats, his experiments tend to prove this - Nor is this the ways when a ligature is tied & then removed. Competer when a ligature is tied & then removed. Competer in a healthy state. In fine surgeons at the present day have given up all idea of such a thing as a mixed assuring.

The structure of veins is neverly similar to that of arteries only that they are more delicate & do not proper clasticity or vital provers consequently do not carry on the circulation to root; When emply they colapse— Their orifice is to carry blood to the heart; as well as other tipues of the body they are subject to lacerated & contined arounds; When this happens it may be known by the blood being durker than the arterial; its pluming more regularly & leing suppressed more easily by prepare— The effect of their bleeding is not to great on the system as that afthe arteries here the

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danger of hoemorrhage in wounds of veins is not so great, but as respects infl " it is more so. Mon Ho unter says that veins will minutely preferre & that they are very liable to continue infly, abselves are also liable to form on the internal surface which generally open externally - M. Travers opposes this opinion & in some respects differs very much fram Homen - Then a view is completely divided the bleeding is arrested by it contracting, they are subject to lungitudinal wounds as in bleeding; the lips in this case do not separace unles pressure be made above - after the blood is accrested the revounds heals & the canal of the veins remains pervious; When however the wound is transverse the points do reparate & the bleeding is profuse & require considerable prepure to stop it. When the blood his been directed M. Fravers has shown that it is . by a coagulium of blood which projects in the cellular tifue & orifice of the vein & that about the 3rd day a new membrane is formed over the internal surface of the conquelum, which finally shuts up the orifice about the 10 th day during which process the coaqueline is gradually absorbed; it forms a continuation of

220 arterial Fifue the living membrane of the view only somewhat thinner; at the same time it is thicker than the values & is the result of infl " . - This membran form a franch which becomes distinded, -Jame times in living animals, the horse particularly a number of them is seen generally occurring from bleeding . - When Your cir comstances either local or general this kind of union does not take place, the inflam " becomes very severe involving Turns unding points & spreads by continuous infl " along its internal coats particularly lowards the heart; the in some other instances it travels the other way . - It is in this particular analogous to other server membranes . -Tymph is generally effected & some times pus owhich extends to the awieles of the heart The inflam " of the internal coat is very extens. Some times throughout the whole extent of the arm on leg & in some instances even to the heart itself; it is similar to that described when speaking of asteries but occurs much more readily in the veins & is more dungerous In some cases the whole of the coals are invalved in the disease - It is generally characterised by

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a supportative state of the orifice with the edges inverted & sometimes enjupelations influ around it - The vein is also much enlarged in some cures as big as the little finger & very hard - Ander these circumstances the constitutional symptoms are very great, high fever & that of the hectic or etyphoid type which generally proces feelal, particularly the latter, when the enfl " is not so extensive & death does not takes place of cure is a enerally accomplished by an ablitionation of the view, In cases where the pas is secreted it is generally circumscribed by the adherine ingla forms on abself & makes its way to the surface, but some times it opens into the cavity of the vein paper to the heart & cours death, Hounter has observed in the course of the vein many of those abcepes resembling small soft tumours all of which may be considered very dangerous, Juch are the common phenomena in healthy veins when a cure has been produced by prefoure; Here we might suppose the same phenomens would take place from the application of a ligature as in the case of the same application to an artery; But Mr Frauers observed that there is no separation of the internal & middle coats as they are fulded we preckered &

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thus brought into the contact without any solution of continuity. When this done the vein below the ligature becomes very much distended with blood & it finally asaquelates for some distance below while that about is empty - finally umon may take place, but it will be much slower than if the coats had been divided -Meration takes place about the of the day, or 20th - These are perhaps the orderway effect. of the ligature - but occasionally They are very dangerous, causing severe infil which extends along the internal cost couring the Some phenomena as mentioned in the wounds of veins - On this account some surgeons have said that a ligature should never be applied to a vein Why this imply takes place more readily in views than in artiries is not known; But France think that it is in consequence of adhesion not taking place in veins as it does in arteries - The question has also been agitated whether it depends upon constitutional or local causes - It can les claubs best they are generally local as from improper treatment, mounds de The the constitution is occasionally, at fault -It may also be coursed by other means as prefine, abcepes & a may like arteries become involved

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thro's urrounding points & may even becomes gamgrenous; as they are not popesed of so much witality as arteries they are much more casily, affected by gangrene & secondary homomorphage as a consequence is also more apt to take place.

Treatment . The hoemontage can easily be arrested by slight prefour & on this account there is no nescepity for a ligature of it ought never to be used - Great corre must be taken that in the dischings no foreign meather get in between the lips of the orifice; then bring the lips close together so that they may unite by the first intention; If the parts do not write & employ come on me rout streetly adhere to the antiphlagistic regimen - When typhoid symptoms come on me must attend to the abdominal viscera & treat as in usual in cases of this kind; In moderate cases nothing is so useful as marm fraultices to the orifice & hat I fire trever from nations along the course of the view, These failing cold must be tried . - Blisters are recommended by Dr Thysick & will be useful tugether with the application of a splint to keep the part at rut - Seeches must muche forgotten; of abrefig 224 arterial Lipne form; open them externally. Hernter says that continuous infl " may be arrested by prefron made between the round & the heart 40 as to cause adhesian & an obliteration of the cuvity This is also valuable when deepperation has taken place to prevent the per from reaching the heart; as cases have been recorded where death took place from rousing the hand to the heads. Varicose Veins -- This disease of believe generally wises from some obstruction of the veins which is produced by many causes, as irregularities in the contractions of the heart or circulation in the lungs To also from violent upl" here they become enlarged by the vis-a-terigo the some times by prefrure from turnours particularly in finales from the gravid citiens, Great mus cular exertion may also cause it - But the most common cause is from lany standing, here the heart throwing the blood into the lower extremities causes them to become distended & this distension is rendered mere effectual by active execution, ent daterming the blood in still greater quantity to the part, also from the weakings of the veins at frist they are of but little importance.

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but after a while they become painful & require the aid of the physician - Some times a spontana cure takes place the this is none - Whenever any of the courses enumerated are present rue find the veins very much distended & if the cause continues to act they may be sufe. tured one or two instances have occurred of a respective of the vena azygos which has produced by muscular exertion, but of enerally the blood find its way by andstomoring branches into the larger veins, those and tomoring branches become very much distended & in your cases remain distated even beyond the vise of the obstructed one Some times they appear in small pour ches termed vorices, at others they afreme a verpentine course be come elongated & are then termed varicose veins & in some cused have been mistaken for anewrisms - Deep sected veins are esolden affected because the peression of arteries & muscles prevent it but the superficial ones become very much enlarged. There is when this occurs an occlema of the link Terhaps this wises from prefiere on the lymps as the disease advances the values no langer priout the prepure of a column - The blood circulates very slowly so much so that coagelation takes place

225 arterial Tefrue. & renders the vein hand but this does not obstruct its cavity as the coaquelum forms in strings in the centre of the vein. Me bodgson however relates a case of a spontaneous cure having taken place by the coaquelum filling the whale country. the small superficial views continuing to carry on the circulation. The veins comment existing the state for any length of time without inft in by a place out in the spirit and applications of time without inft in by a place out in place out is a generally a knowing couring thickening of the coats is shealt also afecting the muscles & skin; Same bonnes abeefres form which extend to the surface by uterative infly gring rise to securdary hamonhage which is some times fatal, at other times it Mancise Micers. They may arises from other courses than variouse veins as for instance an ulcer occurring in the pretient at the time directly over the neigh borhoved of veins, Of these there are 2 kinds, in the friet the edges are very delicate & of a brownish colour & the bottom durk & livid, in the 2nd Hayer the edges

are uniqual & indurated, In both cases there is a dull heavy poin - In fact vuricor ulcers may

be defined on nothing more than on indulent where complicated with inlarged veins,

224 arterial Tipue creatment. It The cause if possible much be removed; hence the necessity of medical means open abrefred de. Ind When the cause cannot be removed our must endeavour to facilitie coagulation in the superficial wins by prefine with bandayes & endeavour to promide adhesion by recumbent posture & this will generally succeed. I get When nift " has superuened & becomes involvente it must be breated by antiphlogistic remedies as rest, frugatives, cold & prefiere until the miple aboutes . - 4the Thould these fail & the vorices become troubles once & dangerous an operation must be resorted to - The modes of operating are the fullwing 1. The actual on patential cautery to the divided turnous but their use is always attended with doinger - The second made proposed consists in tiging up the large trunk in which the vein terminates go as to cause a contraction, this is to be afristed by prefuer so as to turn the course of the blood into the deepe deated veins, but this is not always succeffeel as other veins enlarge or the Juperficial ones continue to grow. Home tried it in clienses sustances by tying up the vena Japlierna but it did not rucceed arterial Fifice .

besides which it is always dangerous from course previously mentioned - a 3rd Operation has lately been proposed by Mr Brudia, Which is to duide the venous trunk in such a way that the incision in the vein whall not correspond with the necesion thro the metery wants & in this oway course union by the first intention - Experience proves that operation is some times fatul & surgeons of the present day rounded much rather trust to prefue - Wicherands praposes to long open the vein & tumors for some distance. De Hartshorne of this city & Le France of Pain recommends the excession of a great of the vein where it is healthy - Jone times this will answer & I prefer it to any other aperation; but this also your tring prom fatul from the simple incision - This I believe arise from the vein being suplained throughout or if not it is probationed to it & the incision courses its development or else the continuous met a occurs, Nor these reasons it is best if pufible to avaid aperation. aneurismal Varies or injury in which the veins & artery are both invalued. It some times happens that in bleeding the Cancel paper thro' both wats of the vein & wound the artery under mooth, this may be

arterial Tefour known by the blood spouling out in jets & being of a bright arterial colour, by the difficulty in stopping the hamourhouse. On removing the boundage the external orifice in the view & there in the integerments close & your unite rabile the posterior one is kept open by the blood profing from the artery into the view, which finally becomes dilated from the impeters of the blood & ober the surpase a circumseribad bluish obling tumour sebaut the sene afa husklant is seen with a tremelous thrilling or guring sensation, & characterised by a wishing or hifsing naise, It seldom becomes larger thou a hazelinet, but after a while the part above becomes more enlarged & it rise towards the writte, Occasionally, however, it descends towards went until it meets a value . It can be remared by prefere or rousing the some; on the contrary if the arm is lowerest it will be much increased in sine - Pressure made on the artery about prevents its full ation while a ligature applied below it will know no effect The brachial artery from lowsing a portion of its blood becomes lurger & pulsate more strongly) while that at the wrist is much meahand; after this has excitted for some times the basilic vin becomes

anterial diffree

varicused & forms a sac, asserismal varia when completely farmed usually recoveries I talianary for life & no instance is recorded of its having been supland, the there is some increase in the sine of the tumour; bunder this there is some inconvenience arising from the diminative sine of the lawer part of the limb arising from the deficiency of nounishment, It is seldom seen in any other place them the bend of the arm; Jose tems, however, it is found in the newa Suphera and a case is recorded of its occurrence in the thigh & Jugular. The prognosis is generally facuousable; but it sometimes happens that the orifice is abligued between the two or that the new & artery are separated for Some distance, so that a frontion of the blood dies nut prof directly into the vein but a front of the blood is differed in the cellular tipue between the artery & vin forming an ancurismal timor communicating with the win, It is then called a varicase discevism, here the circulation being partially arrested the pulsation is mut do strong & it may be known by prefice emptying the vein, but it will not remove the tumor - This free from trimbling on this case me have answerm connected with varise, here

arterial Fefre

there is some danger from been ting accompanied by all there wrising from an evismal vain but left dangerous than other uneuring Greatment - The treatment of simple ancurismed vacine at first is only palliative, awid continued & severe exercise & keep the arm elevated; Some Surgeons emplay pressure but Bayer says that it is of no advantage as it will cause greater efferien in the collator membrone; while Scurpe highly recommends it & Juys that it has Jucceeded often in his hunds, but the degree of prefuse is so great that the patent will seldon submit to it. If any aperation is necessary the arting should be exposed both above a below the tumor but this is seldom required. Tearpor recommends the obliteration of the artery by pressure against the as humeri. When however it is complicated with effusion into the cellular membrane the surgeon is required. The Hunterian aperation will not succeed here no method of operating will answer here so well as that proposed by Dr Physick; He cuts down upon the watery & tying it above & below the tumour tookes out the whole diseased portion Larker of Liverpool tyed the artery but left the

232 absorbent Tifice tumour to be removed by alesonption, both goth absorbent Tystem The structure of the absorbents from their you are but little known but from analogy they are supposed to be similar to that of the views; internally, as delicate mambrane & externally thick dense fibrous coal, connected to surrounding parts by cellular tifue, They are liable like others tipues to vicious of cialents the navely indicated by any particular Symptoms, occasionally they become dubject to continuous infl " which commences in the intermed tipue spreads to the enternal tunic & extends to the lymphatic of lands, It may be known by a small red line astending upward towards the glands the occasionally clownwards Some times, however, there is no discoloration but the infl " much be severe before this is seen as here the other coats of the absorbent cellular tifue & skin must be invalved previously to its appearence - When examined they are found to be hard indurated cords from the expusion which sorrows do them & knots are felt from the enlargement of their values. Of this infly the gland generally partakes & become smaller; this is some time the

absorbent Tifous

afirst symptom & it not empreymently occurs without the refrels being at all perceived to be in this state, this is owing to the influ being Teated in its linning membrane - Generally in these cases the glands become the bond of union the enflow of precading no further, Some time all the superficial absorbents of the limb become inplanned coursing great swelling & frain & also violent constitutional symptoms of a hectic or typhoid character which is much dreaded by all surgeons; The diminutive sine of the absorbents do not allow an onestryation into their state; but me have reason to believe that lymph & pur over effected as in veins & that purs is some times carried into the circulation abcefors also frequently forms as in buto - When severe these involve the contrapours tipues & burst externally, These absences are very common in the grown & ascillue but are also seen along the course of the repel. The Causes may be classed under 3 gives al breads. The first may be considered as internal coursed viz certain I tates of the general Gystem as cold, certain pevers, peculiar I tates of the chy laponetic viscera & as in plagues Tellow faver de. When from cold or disorders of the

236 Infla " modified. a different treatment according to the tiffue in rubich it is located. Inflammation modified by different organs and their capsules 1. Injuries of the Heard In consequence of blows on the head there is three wently, an effection of blood under the perior teum & which is circumscribed & often mistaken by surgeons for fracture this must be opened of the blood renacuated Wounds of the dealf are dimiter to those of any other part of the body but there is a species dependant upon an affection of the nound termed neuralgia of the scalp, characterized by severe poin at the sport & extending over the whate scalp & all this after the round has healed - When the spot is examined there is no symptom of enfl " except increuses of pain on prefun Freat: De Physick out down to the sculp & thought that be eved it but this has friquent failed. - He also thought that he cured it by senties but they are mut to be depended upon. The remedies for this affection are various as semeties, narenties, incessions absolute ment &c. - On esstension rounds

Councerfs, and

of the scalp there is always danger from the use of sutures as they generally give rise to erysipulas, on this account it has been recommended never to apply a ligature to records of the kind but always to depend upon prefun L'unetweed Wounds, are more dangerous as they may cause deep scaled implo of the scalp & bound down by the fascia. When this its removal. The Freatment of revenues of the scalp must be varied according to einems turners but there is generally much danger atbe said to be of two kinds direct & indirect; The direct resulting from blows & the indirect from infl". The direct relate to wounds of the sculp cranium, dura matter, fria matter & the brain itself; Frequencly the brain is affected by a blow while the sculp is but little injured. Its regards the effects produced upon the brain itself our may company Them to contuisions . When speaking of this I mentioned that there were three degree of contusion, It a total or partial laft of function; this in the brown, is termed Our enfrim, where is complicated with

238 Concussion contusions owithin a volution of continuity & extravaration of blood giving rise to compres. sion of the brain. But Where there is a completely disorganized totale coming death of the partient all of which are complicated with each other & under narious circumstances. By Concussion then rue are to understand nothing more than the first degree of Contarion or a partial luft of Junction & as the brain presides over all the other organs, very important effects are produced; The first degree there is a slight String, some vertigo siekung of stomach, pain in the head slight electation of pulse dimme for of vision & trumbling of the lineles - If the consulprin is quater the patent is commation; resperation is searcely purceptible, for from Stertor, entremities, cold, your & their pale pulse weak & slowed intermittens. & the pupils delated. In this state the patient cannat remain long without some change as if reaction does mut takes place he muill soon die: This reaction is called the 2 & lages of Canculina. When reaction is about to take place there is a partial restoration; the carotides are seen to pulsate & the pulse to mercuse m

239 Cancufican Grequency. After this in some cases these Symptions of reaction gradually decline & the patient recover, but in others they be come more violent & terminate in Phrenitis or the gred Hage of concension Concersion of the brain is coursed by many cir curs touces as falls upon the knees feet, buttocks & but the worst form of it is produced by blows upon the head -Whether these Symptoms can occur without the rupture of blood refiels was at one time much disputed, at present, however, it is satisfactorily proved that concupien can take place without any disorganization Of Case is recorded in which the patient long Bruceks & then Guddenly & perfectly recovered D Ireatment, ellech judgement is required in distinguishing the Stages During the frist stage but little can be done, if we were to bleed as formerly recommended, we should exhaust the little remaining of the patient & terminate his excitince, On the other hand if we were to resort to stimulants me will be aft to increase the infl " a make the case much

240 dreat: of Concupian worse, besides which from the great debility of the brain & its extreme delicacy we are in danger of producing effections; hence in all ordinary casas & timuli are inachnifi ble If however the fratient is sinking it may be had recourse to and then it & hoursel be principally external as placing the feet in hat menter or the use af a warm semi empirem on enjections of a fafutida; In some cases outerette prostration is very great a little wine or spirits may be thrown down the throat; but in such desperates care we have but little to hope for - We must therefore wait patiently for resetion . -When the 1th Symptoms of reaction take place, the indications are to prement effusion on & infl " of the brain, This is to be done by the rigid autiphlogistic regimen; N. J. Yree Jurying, low diet; autimorials & perfect rest. The must also Thomas the head & apply cold which prevents efferien afirted by cups & ceches, We must even keep the wefile of the brain below from - by pursuing this place rigidly we are enabled to prevent the 3nd stage The patient generally recovers very slowly but in some cases never perfectly as he is affected by lop of memory.

Effusion) When the injury has been produced by a blow The often have the 2nd division of contamins with lacurations of the internal shuiten in consequence of which we have paralysis & death under the head of compression our may have an 21fusion of blood & deprefied bone accompanied by last of function, The cranium contains the brown enveloped by the membranes, the dura matter supplies the place of the internal perior teum - The wachword is double himing the internal surpace of the dura matter & the external of the prior matter - consequently a complete covity is formed & when blood is expused it is some times in this sac. In Consequence of the dura matter answering as a persosteum & adhering closely to the internal surface of the bone, ablow often course a separation of them & then an affersion take plan betimen the dura matter & bone at this part . It may however be situated between the arachnoid I pria matir or on the ventrichs of the brain themselves; when between the dura matter I cravium it is generally con coms willed but ruhu it is between the two layer of the arachnoid it is spread over nearly the whole surface of

242. formian. the brain. When in the salestainer of the brain it is but slight. The symptoms of slight compression are head ache. When greater there is dimme for of wight, now if there is an effusion extersion to the dura mater & we Trephine me shall remove all the blood -But if no blood is seen & the dura matter protrudes we may be certain that it is in the cavity of the arachnoid - Un eseperimend Surgeon would in such a airso preneture the protrasion but if he did dangerous consequences would fullows as it is congretated, & the blood be coming exposed to the in becomes putrial couring weatent & dangerous symptoms - Some cures however are recorded in which it mas succeffeel but it must have been parformed immediately after the accident while the blood was plaid Areon these dangers thin rue shad better, trust to the absorbents when thus gitueted, also when seated in the untirieles if the brain I indeed the latter case it must be fruitles at any time. When it is complicated with fraction it must be treated in the same way as when blood is effect enterior to the dura mater - Perist endeavour

243 Anjuries of the Head to produce absorption, & if your do not succeed you must elevate the bone & resort to the operation of trephining; Tymptoms of depured bom are the same as those of effered blood; but as De Harris has brauted of both I med make tent a few remarks; I ome times the fracture is compound - Here we must at once please the parts & if this does not succeed remove the depreped bone by an operation - When ever a fractione is complicated with a round of the brain or its When it occurs strict antiphlagistical breatment is required, Never cut away any partions of the scalp for if it adhere at all it will unite the adhision inflor. In drefting the points do not employ any preferre & allow a free discharge of the fluids or you will produce comprepien Ceval with this a street antiphlagistic plan must be a dhered to, - In hun shut rounds if the ball can be found it may be removed by enlarging the Opening with a Fre phine, but no esclennice proling can be allowed. When small afrening are made theyo may write by bony matter; but, when

244. Injuries of the Headle large they are only covered by a dense membran cicatrix which must be protected by a place of metal. - -Undirect consequences are the result of unflu of the different tefreed - In out of the Gealf as it is generally bound down by the fascia it will be necessary to make incisions to relieve the preferre. - When infl " of the crans un occur, it is generally confined to the external table & may terminate by expoliation. This usually. results from a direct blow Jost, however has mentioned a complication of a more server nature Wir: suflam " taking place in the diploic I tometure running on to Suppuration & causing a destruction of the external table some times extends to the external table and cum to the membranes of the brain. It may be known by a puffy tumour fixed pain the brain &c. - This termen appear to contain air and is produced by the deparation of the perior term from the bone; but, it has nothing to do with the disease. It hunther inflammation is left to renturo a cure is ( Forward two Pages)

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ajuries of the Head. When this inflam is left to hature, a come is some times accomplished by a deparation of the esternal lable by absorption or estoliation, which allows the matter to be evacuated, but it is a very tedious process; occasionally, however, instead of being dix-Charged in this way, it threads in every direction in the diploe, in many cases destroying the internal as well as the external tables, deparates the dura mater and finally causes death, all of which arise from the matter being confined. The indication here is to form an outlet for the matter, and in this way we may often have the patient. Another consequence of a blow or Sun- shot would is the of the whole the Much or both tables of the bond. It may also arise from inflam. of the bone terminating in Tangrend, and Some trines by a deparation of the periorteum, depriving a bone of its nowishment; but from whatever Cause it is always attended by a deparation of the dura mater from the inside of the bow, some what analogous to what is her in necrosis: here the bone acts as a foreign body causing the dura mater to inflame, and is consequently attender beg great danger. The heft our tome arises from other Causes, as a spicula of bone, and touchines from a blow or contusion. It can (Forward two leaves)

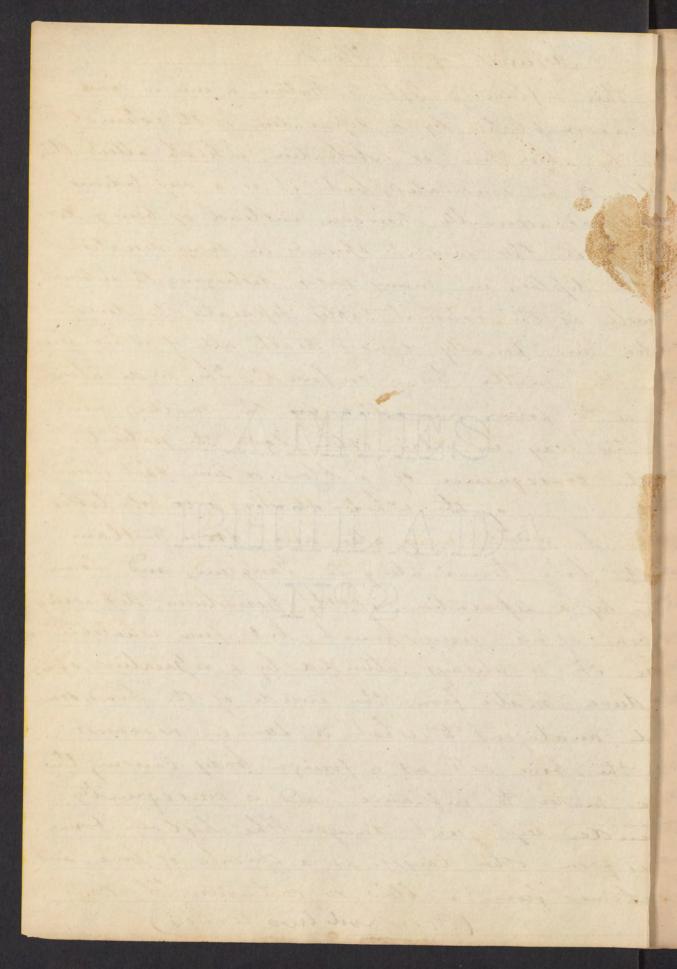


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organies of the Head. days both, he distinguished from Inflam of the arachnord or pia mater, by the circumstance of the patient complaining for a few days of a Hight fever with a dult pain, accompanied by naurea for shows there continue debrium comes on; a stop not being put to the dymptoms rigons mathe Their appearance accompanied by headache thirt, debrium convulsions and teath. Iwing this process important changes are talking place at the part if the bone be embroken. A dwelling I gradually formed, and when opened the perio ortene will be found loosened from the bond and containing a dark Paries with an attention of the bond. In the more advanced stages, and where the patient is affected with rigory, the bone will be found dead, & if This he removed the dura mater with be found in a tetached or gangrenous state with a purulent becution which extends to some distance under the memberanes in the dubstance of the brain. seath however usually takes place before Tuflam has gone so gar. In those parts where the scalle has been tow off the parts offear healthy but the granulations in a few days become flably and are entirely absorbed with a discharge of Newy from the enternal parts; the perieramine becomes - Forward & Leaves.

hating complaining for a few land of wally formed, and who observe the will the found thopsaid from the to entaining a dark having with an alter In the more advanced From an anners that with a purchast distribus was as grade in these parts at less the Teal see love off the salt appear healty the ye wanterties in a few days become freday

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an of the state of the contraction of the contracti 2. fr n a

Injuries of the Head attered, this arises from the Inflam. being determined to the enternal parts: hence the application of blisters and other counter virilants is requised then affections are always danger my be cause They involve the beain, in down cases the Nura mater from being irritated becomes very much throllened by a deposition of coag: lymph, and causes pressure of the train; pur also is some times formed. When near a dutine brother an opening has been in the bone the pus is evacuated, the dura mater grundates, finds its way this the cramino, and appears of a Jungous nature caused as I before mentioned by writation of the dead bone: Some times however I believe it to be a primary affection of the dura mater, is of itself will remove the bond: It has a putsatile motion and has been mistatten for uneurism. The original down en therefore is the miffam: of the dura mater, which often com nunces before the bone is dead: here the ante-phtogities treatment rigidly enforced may present or arrest it after it has commenced. In ease of fraction the and parts must be removed, for if left to the usual procep of nature the patient will generally be destraged - The Should in all buck cases interfere and remove the dead bond to that the parts may

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Injuries of the Head. granutate. In what extent the cramin may be Umoved is not exactly known. Haller mention a case where b'z in ches were removed. At any tate a sufficient portion must be removed I prevent the accumulation of fluid, and as a general rule we must remove all that is diseased. At regards the fungous growth, it may generally be suffressed by removing the prepune of the dead bone, after this the parts will heal and the fleshy excrescences with disappear, if necessary it may be retarded by puttere or ever escharaties, but I do not like the tatter In Cases of original fungues, we may remove the whole timour, but here the chance of recovery is very bad. This Kind of hiflam is Sometimes of a chronic character tasting for years.

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